Appendix B

Field Reports, Water Quality Data Sheets, and Waste Manifest

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash * Eureka, CA 95501-2138 * 707/441-8855 * FAX: 707/441-8877 shninfo@shn-engr.com

DAILY FIELD REPORT

Job No. 098179.304
Page of

Project Name	Client/Owner: Conocophillips	Daily Field Report Sequence No	
General Location Of Work: Cop. Eureka	Owner/Client Representative	Date: 12/27/04	Day Of Week: Mon
General Contractor: Eureka CA	Grading Contractor	Project Engineer: Mike Foget	
Type Of Work: O+M	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather: Rain	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

1012 On site. system shut down due to high water level.
hour at shut down 8922.55
1015 Started system up.
1040 Began to remove all Free product in all EW. wells.

Copy given to:

Reported By: Dustin Tibbets

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

DAILY FIELD REPORT

Job No. 098179.304

Page 1 of

Project Name: COP Eureka	Client/Owner: ConocoPhillips	Daily Field Report Sequence No:	
General Location Of Work: Eureka, Ca.	Owner/Client Representative:	Date: 12-30-04	Day Of Week: Thurs.
General Contractor: —	Grading Contractor:	Project Engineer: Mike Foget	
Type Of Work: O:M weekly	Grading Contractor, Superintendent, Or Foreman:	Supervisor: Chris Fisher	
Source & Description Of Fill Material:	Weather: Rain	Technician: JCT	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc):		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

1350	on site
1400	Begin taking Readings on Western IAV System
1410	Begin taking Readings on Eastern IAV system
1420	Begin taking Readings on DPE System
1630	off site

Copy given to:

Recorded By: JCT

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 12-30-04 Time: 1400
Performed By: JCT Weather: RAIN

Hour Meter: _____ hours

BS-1 thru 10	Initial	Final
Valve Position (% open)	0	0

BS-11 thru 18	Initial	Final
Valve Position (% open)	0	0

Trench #1	Initial	Final
Valve Position (% open)	100	0

Trench #2	Initial	Final
Valve Position (% open)	0	100

Manifold Readings	Initial	Final
Temperature (°F)	92	100
Pressure (psig)	2.25	7.5
Flow Rate (scfm)	50	35

Comments: _____

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 12-30-04 Time: 1410
Performed By: DCT Weather: Rain

Hour Meter: 41715 hours

Trench #1A	Initial	Final
Valve Position (% open)	0	0
Flow Rate (fpm)	0	0

Trench #1B	Initial	Final
Valve Position (% open)	100	100
Flow Rate (fpm)	12,591	12,591

Trench #2	Initial	Final
Valve Position (% open)	0	0
Flow Rate (fpm)	0	0

Manifold Readings	Initial	Final
Temperature (°F)	147.7	147.7
Pressure (psig)	3	3

Comments:

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 12-30-04 Time: 1420
Performed By: JCT Weather: Rain

Extraction Well	Extraction Line	Manifold Readings				Well Head Readings			
		Ball Valve Position (% open)	Line Vacuum (in Hg)	Flow Type (see notes)	OV Conc. (ppm)	Line Vacuum (in Hg)	Depth to Extraction Unit (ft)	Throttle Valve (turns open)	Bleed Valve (% open)
EW-1	H_2O/Air								
	FP								
EW-2	H_2O/Air								
	FP								
EW-3	H_2O/Air								
	FP								
EW-4	H_2O/Air								
	FP								
EW-5	H_2O/Air								
	FP								
EW-6	H_2O/Air								
	FP								
EW-7	H_2O/Air	100	25	C					
	FP	0							
EW-8	H_2O/Air								
	FP								
EW-9	H_2O/Air								
	FP								
EW-10	H_2O/Air	100	22	C					
	FP	0							
EW-11	H_2O/Air								
	FP								
EW-12	H_2O/Air								
	FP								

NOTES:
in-Hg = Inches of Mercury
in-Hg = 13.6 in-H_2O
1 ft^3 = 7.48 gallons
FP = Free Product
Flow Types: B = Bubble, S = Slug, C = Churn, R = Ripple, A = Annular

OVA Calibrated with 98 ppm Cal Gas
OVA Type PID

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 12-30-01 Time: 1430

Manifold

Manifold H_2O meter	NA	gal	Manifold vacuum	21	in-Hg
Manifold H_2O flow rate	NA	gpm	Manifold temp	56	°F

Liquid Ring Pump (LRP)

LRP hr meter	8492	hr	LRP oil color	Honey	
LRP oil filter	0.5	psi	LRP oil level	100% full	
LRP vacuum	24.5	in-Hg	LRP temp	174	°F
Throttle Valve		turns closed	Dilution air valve	0	turns open
Recirculation valve		turns open			

Water Knock-out Pot

H_2O Discharge Counter	16524	counts			
Discharge pressure	0*	psi			
Inlet vacuum	23	in-Hg			
Sediment Filter Δ P	NA	in-H_2O			

Free Product Tank

	Initial	Final	
Depth to FP (ft)	NA	NA	
Depth to H_2O (ft)	↓	↓	
Main valve (4")	4		turns open

Vapor Destruction Unit

Preheat temp (high)	1430	°F	Hour meter	8996	hours
Preheat temp (low)	1427	°F	OVA well field		ppm
Preheat SP temp	1425	°F	OVA pre-burner	6.3	ppm
Exhaust temp (high)	1439	°F	OVA post-burner		ppm
Exhaust temp (low)	1438	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	(Burner) or Catalytic	

Chart Recorder

Flow	0*	in-H_2O	Date Storage	49	% full
LEL	31	%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	2	in-H_2O
Secondary pressure	0.25	psi	Supply tank level	90	%

Air Stripper

Vacuum	0.45	in-H_2O	OVA AS-Eff	135	ppm
Air Flow	NA	in-H_2O	OVA Carbon-Mid		ppm
			OVA Carbon-Eff		ppm

Comments:

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash * Eureka, CA 95501-2138 * 707/441-8855 * FAX: 707/441-8877 *shninfo@shn-engr.com

DAILY FIELD REPORT

Job No. 098179.304
Page of

Project Name: COP. Eureka	Client/Owner	Daily Field Report Sequence No	
General Location Of Work	Owner/Client Representative	Date: 12/31/04	Day Of Week: Fri
General Contractor	Grading Contractor	Project Engineer: Mike Foget	
Type Of Work	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather: Rain	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

1100 On site Cleaning V valves and site tube.
1125 Started system up.
1140 Removing free product in all EW-Wells.
1210 Off site.

hr. at 1210 = 8998.03 DPE system.

	Copy given to:	Reported By: Dustin Tibbets

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash * Eureka, CA 95501-2138 * 707/441-8855 * FAX: 707/441-8877 * shninfo@shn-engr.com

DAILY FIELD REPORT

Job No. 098179.304
Page of

Project Name	Client/Owner: Conocophillips	Daily Field Report Sequence No	
General Location Of Work: Cop. Eureka	Owner/Client Representative	Date: 11/7/05	Day Of Week: Fri.
General Contractor: Eureka CA	Grading Contractor	Project Engineer: Mike Foget	
Type Of Work: O+M	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather: Rain	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

0918 On site system off due to high water level.
JET, Cleaning Air stripper.
0932 DET Taking reading from the east Biovent system
0946 Taking reading from the west Biovent system
1012 Started system up.
1030 Taking reading from the DPE system.
1100 Clean and loaded up.
1112 Off site,

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 1/7/05 Time: 0946
Performed By: _____ Weather: Rain

Hour Meter: 5225.33 hours

BS-1 thru 10	Initial	Final
Valve Position (% open)		

BS-11 thru 18	Initial	Final
Valve Position (% open)		

Trench #1	Initial	Final
Valve Position (% open)	100	0

Trench #2	Initial	Final
Valve Position (% open)	0	100

Manifold Readings	Initial	Final
Temperature (°F)	94°	100 and going up
Pressure (psig)	~~2.5~~ ~~1.75~~ 2.5	2.25
Flow Rate (scfm)	47	68

Comments: _____

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 1/7/05 Time: 0932
Performed By: DCT Weather: Rain

Hour Meter: 419033/10 hours

Trench #1A	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Trench #1B	Initial	Final
Valve Position (% open)	100	100
Flow Rate (fpm)	~~96~~ 9880	9880

Trench #2	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Manifold Readings	Initial	Final
Temperature (°F)	145.3°	145.3°
Pressure (psig)	3	3

Comments:

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 1/7/05 Time: 1030
Performed By: DCT Weather: Rain

Extraction Well	Extraction Line	Manifold Readings				Well Head Readings			
		Ball Valve Position (% open)	Line Vacuum (in Hg)	Flow Type (see notes)	OV Conc. (ppm)	Line Vacuum (in Hg)	Depth to Extraction Unit (ft)	Throttle Valve (turns open)	Bleed Valve (% open)
EW-1	H_2O/Air								
	FP								
EW-2	H_2O/Air								
	FP								
EW-3	H_2O/Air								
	FP								
EW-4	H_2O/Air								
	FP								
EW 5	H_2O/Air								
	FP								
EW-6	H_2O/Air								
	FP								
EW-7	H_2O/Air	100	20	C					
	FP								
EW-8	H_2O/Air								
	FP								
EW-9	H_2O/Air								
	FP								
EW-10	H_2O/Air	100	21	C					
	FP								
EW-11	H_2O/Air								
	FP								
EW-12	H_2O/Air								
	FP								

NOTES:
in-Hg = Inches of Mercury
in-Hg = 13.6 in-H_2O
1 ft^3 = 7.48 gallons
FP = Free Product
Flow Types: B = Bubble, S = Slug, C = Churn, R = Ripple, A = Annular

OVA Calibrated with _____
OVA Type _____

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 1/7/05 Time: 1030

Manifold					
Manifold H_2O meter		gal	Manifold vacuum	19	in-Hg
Manifold H_2O flow rate		gpm	Manifold temp	56°	°F
Liquid Ring Pump (LRP)					
LRP hr meter	8657.24	hr	LRP oil color	Dark Honey	
LRP oil filter	1.25	psi	LRP oil level	120% full	
LRP vacuum	22.5	in-Hg	LRP temp	124°	°F
Throttle Valve		turns closed	Dilution air valve		turns open
Recirculation valve	4%	~~turns open~~			
Water Knock-out Pot			**Free Product Tank**	Initial	Final
H_2O Discharge Counter	16965	counts			
Discharge pressure	N/A	psi	Depth to FP (ft)		
Inlet vacuum	21	in-Hg	Depth to H_2O (ft)		
Sediment Filter Δ P		in-H_2O	Main valve (4")	4	turns open
Vapor Destruction Unit					
Preheat temp (high)	1467	°F	Hour meter	09160.57	hours
Preheat temp (low)	1424	°F	OVA well field	343	ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1478	°F	OVA post-burner	2	ppm
Exhaust temp (low)	1433	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	(Burner) or Catalytic	
Chart Recorder					
Flow	N/A	in-H_2O	Date Storage	61	% full
LEL	32	%			
Propane Supply					
Primary pressure	6.5	psi	Operating pressure	12	in-H_2O
Secondary pressure	less than 1	psi	Supply tank level		%
Air Stripper					
Vacuum	3	in-H_2O	OVA AS-Eff		ppm
Air Flow	N/A	in-H_2O	OVA Carbon-Mid		ppm
			OVA Carbon-Eff		ppm

Comments:

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash * Eureka, CA 95501-2138 * 707/441-8855 * FAX: 707/441-8877 *shninfo@shn-engr.com

DAILY FIELD REPORT

Job No. 098179.304
Page of

Project Name	Client/Owner: Conocophillips	Daily Field Report Sequence No	
General Location Of Work: Cop: Eureka	Owner/Client Representative	Date: 1/14/05	Day Of Week: Fri.
General Contractor: Eureka CA	Grading Contractor	Project Engineer: Mike Fraget	
Type Of Work: O+M	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather: Over Cast	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

1115 On site. Taking readings on the Bivent system's
1125 Taking readings on the DPE system.
1420 On site
1450 Sample EXS-EFF (Soma)
1455 Sample EXS-DUP (Soma)
1500 Sample Car-EFF (Soma)
1530 Sample AS-EFF (water)
1540 Sample EXS-EFF (water)
1645 Off site

Copy given to:

Reported By:

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 1-14-2005 Time: 1115
Performed By: JCT Weather: clouds

Hour Meter: _____ hours

BS-1 thru 10	Initial	Final
Valve Position (% open)	0	0

BS-11 thru 18	Initial	Final
Valve Position (% open)	0	100

Trench #1	Initial	Final
Valve Position (% open)	0	0

Trench #2	Initial	Final
Valve Position (% open)	100	10

Manifold Readings	Initial	Final
Temperature (°F)	90	104
Pressure (psig)	1.5	6.0
Flow Rate (scfm)	55	37

Comments: _____

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 1-14-2005 Time: 1115
Performed By: JcT Weather: cloud

Hour Meter:_____hours

Trench #1A	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Trench #1B	Initial	Final
Valve Position (% open)	100	100
Flow Rate (fpm)	10810	10810

Trench #2	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Manifold Readings	Initial	Final
Temperature (°F)	149.1°	149.1°
Pressure (psig)	3	3

Comments:

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 1/14/05 Time: 1125
Performed By: DCT Weather: Over Cast

Extraction Well	Extraction Line	Manifold Readings				Well Head Readings			
		Ball Valve Position (% open)	Line Vacuum (in Hg)	Flow Type (see notes)	OV Conc. (ppm)	Line Vacuum (in Hg)	Depth to Extraction Unit (ft)	Throttle Valve (turns open)	Bleed Valve (% open)
EW-1	H_2O/Air								
	FP								
EW-2	H_2O/Air								
	FP								
EW-3	H_2O/Air								
	FP								
EW-4	H_2O/Air								
	FP								
EW-5	H_2O/Air								
	FP								
EW-6	H_2O/Air								
	FP								
EW-7	H_2O/Air	100	19	C					
	FP								
EW-8	H_2O/Air								
	FP								
EW-9	H_2O/Air								
	FP								
EW-10	H_2O/Air	100	21.5	C					
	FP								
EW-11	H_2O/Air	100 just open	11 ?	C					
	FP								
EW-12	H_2O/Air								
	FP								

NOTES:
in-Hg = Inches of Mercury
in-Hg = 13.6 in-H_2O
1 ft^3 = 7.48 gallons
FP = Free Product
Flow Types: B = Bubble, S = Slug, C = Churn, R = Ripple, A = Annular

OVA Calibrated with _____
OVA Type _____

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 1-14-2005 Time: 1125

Manifold

Manifold H_2O meter	NA	gal	Manifold vacuum	18	in-Hg
Manifold H_2O flow rate	NA	gpm	Manifold temp	52	°F

Liquid Ring Pump (LRP)

LRP hr meter	8747	hr	LRP oil color	Honey	
LRP oil filter	1.25	psi	LRP oil level	100% FULL	
LRP vacuum	22	in-Hg	LRP temp	174	°F
Throttle Valve		turns closed	Dilution air valve	0	turns open
Recirculation valve	4%	turns open			

Water Knock-out Pot

H_2O Discharge Counter	17149	counts
Discharge pressure	NA	psi
Inlet vacuum	21	in-Hg
Sediment Filter Δ P	NA	in-H_2O

Free Product Tank

	Initial	Final	
Depth to FP (ft)	NA	NA	
Depth to H_2O (ft)	↓	↓	
Main valve (4")	4		turns open

Vapor Destruction Unit

Preheat temp (high)	1433	°F	Hour meter	9250	hours
Preheat temp (low)	1425	°F	OVA well field	146	ppm (EXS-IN)
Preheat SP temp	1425	°F	OVA pre-burner	5	ppm (EAR-EF
Exhaust temp (high)	1468	°F	OVA post-burner	6	ppm
Exhaust temp (low)	1460	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	NA	in-H_2O	Date Storage	73	% full
LEL	21	%			

Propane Supply

Primary pressure	6.75	psi	Operating pressure	2	in-H_2O
Secondary pressure	0.25	psi	Supply tank level	79	%

Air Stripper

Vacuum	3	in-H_2O	OVA AS-Eff		ppm
Air Flow	NA	in-H_2O	OVA Carbon-Mid		ppm
			OVA Carbon-Eff		ppm

Comments:

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash * Eureka, CA 95501-2138 * 707/441-8855 * FAX: 707/441-8877 * shninfo@shn-engr.com

DAILY FIELD REPORT

Job No. 098179.304
Page of

Project Name: COP. Eureka	Client/Owner: Conocophillips	Daily Field Report Sequence No	
General Location Of Work: Cop. Eureka	Owner/Client Representative	Date: 1/18/05	Day Of Week: Tue.
General Contractor: Eureka CA	Grading Contractor	Project Engineer: Mike Foget	
Type Of Work: O+M	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather: Part Cloudy	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

0947 On site removed free product in all EW-well's
1038 Shut system off to clean manifold and discharge line.
1140 Stating system back up.
1155 Clean and loaded up.
1205 OFF site

Copy given to:

Reported By: Dustin Tibbets

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash * Eureka, CA 95501-2138 * 707/441-8855 * FAX: 707/441-8877 * shninfo@shn-engr.com

DAILY FIELD REPORT

Job No. 098179.304
Page of

Project Name	Client/Owner: Conocophillips	Daily Field Report Sequence No	
General Location Of Work: Cop. Eureka	Owner/Client Representative	Date: 1/21/05	Day Of Week: Fri.
General Contractor: Eureka CA	Grading Contractor	Project Engineer: Mike Foget	
Type Of Work: O+M	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather: Partly Cloudy	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

0945 On site. Taking readings from the east Biovent system.
1000 Taking readings on the DPE system.
1110 Shut system down to clean airstripper.
~~1120 Sampled Carbon~~
1128 Taking readings from West Biovent system.
1145 Starting DPE system back up.
1152 Clean and locked up.
1158 Off site.

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 1/21/05 Time: 0945
Performed By: DcT Weather: Partly cloudy

Hour Meter: 42239 6/10 hours

Trench #1A	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Trench #1B	Initial	Final
Valve Position (% open)	100	100
Flow Rate (fpm)	10725	10725

Trench #2	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Manifold Readings	Initial	Final
Temperature (°F)	135.4°	135.4°
Pressure (psig)	3	3

Comments:

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 1/21/05 Time: 1000
Performed By: DCT Weather: Partly cloudy

Extraction Well	Extraction Line	Manifold Readings				Well Head Readings			
		Ball Valve Position (% open)	Line Vacuum (in Hg)	Flow Type (see notes)	OV Conc. (ppm)	Line Vacuum (in Hg)	Depth to Extraction Unit (ft)	Throttle Valve (turns open)	Bleed Valve (% open)
EW-1	H_2O/Air	100 % open on 1/4/05		C					
	FP								
EW-2	H_2O/Air								
	FP								
EW-3	H_2O/Air								
	FP								
EW-4	H_2O/Air								
	FP								
EW-5	H_2O/Air								
	FP								
EW-6	H_2O/Air								
	FP								
EW-7	H_2O/Air	100	24	C					
	FP								
EW-8	H_2O/Air								
	FP								
EW-9	H_2O/Air								
	FP								
EW-10	H_2O/Air	100	22	C					
	FP								
EW-11	H_2O/Air								
	FP								
EW-12	H_2O/Air								
	FP								

NOTES:
in-Hg = Inches of Mercury
in-Hg = 13.6 in-H_2O
1 ft^3 = 7.48 gallons
FP = Free Product
Flow Types: B = Bubble, S = Slug, C = Churn, R = Ripple, A = Annular

OVA Calibrated with 98 ppm
OVA Type

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 1/21/05 Time: 1000

Manifold

Manifold H_2O meter	.87	gal	Manifold vacuum	18	in-Hg
Manifold H_2O flow rate	155 2379.9	gpm	Manifold temp	54°	°F

Liquid Ring Pump (LRP)

LRP hr meter	8909.83	hr	LRP oil color	Dark Honey	
LRP oil filter	1.75	psi	LRP oil level	110% full	
LRP vacuum	21.5	in-Hg	LRP temp	173°	°F
Throttle Valve		turns closed	Dilution air valve	0	turns open
Recirculation valve		turns open			

Water Knock-out Pot

H_2O Discharge Counter	175429	counts			
Discharge pressure	N/A	psi			
Inlet vacuum	21	in-Hg			
Sediment Filter Δ P		in-H_2O			

Free Product Tank

	Initial	Final	
Depth to FP (ft)			
Depth to H_2O (ft)			
Main valve (4")	4		turns open

Vapor Destruction Unit

Preheat temp (high)	1455	°F	Hour meter	09412.87	hours
Preheat temp (low)	1424	°F	OVA well field	81	ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1463	°F	OVA post-burner	1.5	ppm
Exhaust temp (low)	1432	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	(Burner) or Catalytic	

Chart Recorder

Flow	28	in H_2O	Date Storage	84	% full
LEL	33	%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	10	in-H_2O
Secondary pressure	less than 1	psi	Supply tank level	76	%

Air Stripper

Vacuum	3.5	in-H_2O	OVA AS-Eff		ppm
Air Flow	N/A	in-H_2O	OVA Carbon-Mid		ppm
			OVA Carbon-Eff		ppm

Comments:

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 1/21/05 Time: 1128
Performed By: DCT Weather: Partly cloudy

Hour Meter: _____ hours

BS-1 thru 10	Initial	Final
Valve Position (% open)		

BS-11 thru 18	Initial	Final
Valve Position (% open)	100 %	0

Trench #1	Initial	Final
Valve Position (% open)		100 %

Trench #2	Initial	Final
Valve Position (% open)	8 %	0

Manifold Readings	Initial	Final
Temperature (°F)	150°	140° and droping
Pressure (psig)	5.65	2
Flow Rate (scfm)	53	68

Comments: _____

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash * Eureka, CA 95501-2138 * 707/441-8855 * FAX: 707/441-8877 *shninfo@shn-engr.com

DAILY FIELD REPORT

Job No. 098179.304
Page of

Project Name	Client/Owner	Daily Field Report Sequence No	
	Conocophillips		
General Location Of Work	Owner/Client Representative	Date	Day Of Week
Cop. Eureka		1/28/05	Fri.
General Contractor	Grading Contractor	Project Engineer	
Eureka CA		Mike Foget	
Type Of Work	Grading Contractor, Superintendent, Or Foreman	Supervisor	
O&M			
Source & Description Of Fill Material	Weather	Technician	
	Rain	Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

0923. On site. ~~Taking reading on the DPE system.~~
System off due to high water level. started system back up.
0934 Taking reading on DPE system
1058 Taking reading on West Bioventsystem.
0940 Taking reading on the East Bioventsystem
1058 Clean and locked up.
1105 Off site.

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 1-28-05 Time: 940
Performed By: JCT Weather: Rain

Hour Meter: 412407 hours

Trench #1A	Initial	Final
Valve Position (% open)	–	–
Flow Rate (fpm)	–	–

Trench #1B	Initial	Final
Valve Position (% open)	100	100
Flow Rate (fpm)	11,932	11,932

Trench #2	Initial	Final
Valve Position (% open)	–	–
Flow Rate (fpm)	–	–

Manifold Readings	Initial	Final
Temperature (°F)	127.9	127.9
Pressure (psig)	2.5	2.5

Comments:

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 1/20/05 Time: 0934
Performed By: DCT Weather: Rain

Extraction Well	Extraction Line	Manifold Readings				Well Head Readings			
		Ball Valve Position (% open)	Line Vacuum (in Hg)	Flow Type (see notes)	OV Conc. (ppm)	Line Vacuum (in Hg)	Depth to Extraction Unit (ft)	Throttle Valve (turns open)	Bleed Valve (% open)
EW-1	H_2O/Air	Close off for rain							
	FP								
EW-2	H_2O/Air								
	FP								
EW-3	H_2O/Air								
	FP								
EW-4	H_2O/Air								
	FP								
EW-5	H_2O/Air								
	FP								
EW-6	H_2O/Air								
	FP								
EW-7	H_2O/Air	100	21.5	C					
	FP								
EW-8	H_2O/Air								
	FP								
EW-9	H_2O/Air								
	FP								
EW-10	H_2O/Air	100	21.5	C					
	FP								
EW-11	H_2O/Air								
	FP								
EW-12	H_2O/Air								
	FP								

NOTES:
in-Hg = Inches of Mercury
in-Hg = 13.6 in-H_2O
1 ft^3 = 7.48 gallons
FP = Free Product
Flow Types: B = Bubble, S = Slug, C = Churn, R = Ripple, A = Annular

OVA Calibrated with _____
OVA Type _____

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 1/28/03 Time: 0934

Manifold

Manifold H_2O meter	1991016.5	gal	Manifold vacuum	~~0~~ 19	in-Hg
Manifold H_2O flow rate	*	gpm	Manifold temp	56°	°F

Liquid Ring Pump (LRP)

LRP hr meter	9031.66	hr	LRP oil color	Dark Honey	
LRP oil filter	1.5	psi	LRP oil level	100%	
LRP vacuum	22.5	in-Hg	LRP temp	122°	°F
Throttle Valve		turns closed	Dilution air valve	0	turns open
Recirculation valve		turns open			

Water Knock-out Pot

				Initial	Final
H_2O Discharge Counter	178529	counts			
Discharge pressure	N/A	psi	Depth to FP (ft)		
Inlet vacuum	21	in-Hg	Depth to H_2O (ft)		
Sediment Filter Δ P	N/A	in-H_2O	Main valve (4")	4	turns open

Free Product Tank

Vapor Destruction Unit

Preheat temp (high)	1454	°F	Hour meter	9534.68	hours
Preheat temp (low)	1419	°F	OVA well field	99	ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1460	°F	OVA post-burner	4	ppm
Exhaust temp (low)	1427	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	(Burner) or Catalytic	

Chart Recorder

Flow		in-H_2O	Date Storage	96	% full
LEL	33	%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	12	in-H_2O
Secondary pressure	less the 1	psi	Supply tank level	85	%

Air Stripper

Vacuum	3	in-H_2O	OVA AS-Eff		ppm
Air Flow	.07	in-H_2O	OVA Carbon-Mid		ppm
			OVA Carbon-Eff		ppm

Comments:

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 1-28-05 Time: ~~940~~ 1050
Performed By: JCT Weather: Rain

Hour Meter: _____ hours

BS-1 thru 10	Initial	Final
Valve Position (% open)		

BS-11 thru 18	Initial	Final
Valve Position (% open)		

Trench #1	Initial	Final
Valve Position (% open)	100	

Trench #2	Initial	Final
Valve Position (% open)		100

Manifold Readings	Initial	Final
Temperature (°F)	90°	90°
Pressure (psig)	1.75	1.75
Flow Rate (scfm)	70	72

Comments: _____

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash * Eureka, CA 95501-2138 * 707/441-8855 * FAX: 707/441-8877 * shninfo@shn-engr.com

DAILY FIELD REPORT

Job No. 098179.304
Page of

Project Name	Client/Owner: Conocophillips	Daily Field Report Sequence No	
General Location Of Work: Cop. Eureka	Owner/Client Representative	Date: 2/4/05	Day Of Week: Fri.
General Contractor: Eureka CA	Grading Contractor	Project Engineer: Mike Foget	
Type Of Work: O+M	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather: Over Cast	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

0902 On site Having safty meeting. Dustin Tibbets

0910 JET Taking readings on East Biovent system

0912 DET taking reading on the DPE system

0950 Shut system off, clean airstripper, and discharge line.

1028 Check total depth on EW-10 = 9.15, EW-11 = 14.15

1038 started system back up

1044 Removing free product.

1230 Clean and loaded up

1240 Off site.

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 2/4/05 Time: 0912
Performed By: DCT Weather: Over Cast

Extraction Well	Extraction Line	Manifold Readings				Well Head Readings			
		Ball Valve Position (% open)	Line Vacuum (in Hg)	Flow Type (see notes)	OV Conc. (ppm)	Line Vacuum (in Hg)	Depth to Extraction Unit (ft)	Throttle Valve (turns open)	Bleed Valve (% open)
EW-1	H_2O/Air	open on 2/4/05 100%	N/A	C					
	FP								
EW-2	H_2O/Air								
	FP								
EW-3	H_2O/Air								
	FP								
EW-4	H_2O/Air								
	FP								
EW-5	H_2O/Air								
	FP								
EW-6	H_2O/Air								
	FP								
EW-7	H_2O/Air	100	24	C					
	FP								
EW-8	H_2O/Air								
	FP								
EW-9	H_2O/Air								
	FP								
EW-10	H_2O/Air	100	24	C					
	FP								
EW-11	H_2O/Air								
	FP								
EW-12	H_2O/Air								
	FP								

NOTES:
in-Hg = Inches of Mercury
in-Hg = 13.6 in-H_2O
1 ft^3 = 7.48 gallons
FP = Free Product
Flow Types: B = Bubble, S = Slug, C = Churn, R = Ripple, A = Annular

OVA Calibrated with _____
OVA Type _____

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 2/4/05 Time: 0920

Manifold
Manifold H_2O meter _____ gal
Manifold H_2O flow rate _____ gpm
Manifold vacuum 22 in-Hg
Manifold temp 54° °F

Liquid Ring Pump (LRP)
LRP hr meter 09178.11 hr
LRP oil filter 1.75 psi
LRP vacuum 21 in-Hg
Throttle Valve _____ turns closed
Recirculation valve _____ turns open
LRP oil color Dark Honey
LRP oil level 100 %
LRP temp 173 °F
Dilution air valve 0 turns open

Water Knock-out Pot
H_2O Discharge Counter 181760 counts
Discharge pressure N/A psi
Inlet vacuum 21.5 in-Hg
Sediment Filter Δ P _____ in-H_2O

Free Product Tank

	Initial	Final
Depth to FP (ft)		
Depth to H_2O (ft)		
Main valve (4")	4 turns open	

Vapor Destruction Unit
Preheat temp (high) 1460 °F
Preheat temp (low) 1419 °F
Preheat SP temp 1425 °F
Exhaust temp (high) 1467 °F
Exhaust temp (low) 1427 °F
Exhaust temp SP 1550 °F
Hour meter 09681.12 hours
OVA well field _____ ppm
OVA pre-burner 79 ppm
OVA post-burner 0.6 ppm
Blower Valve _____ % open
Mode (Burner) or Catalytic

Chart Recorder
Flow N/A in-H_2O
LEL 35 %
Date Storage 0 Next % full

Propane Supply
Primary pressure 6.5 psi
Secondary pressure less than 1 psi
Operating pressure 12 in-H_2O
Supply tank level 77 %

Air Stripper
Vacuum 4 in-H_2O
Air Flow N/A in-H_2O
OVA AS-Eff _____ ppm
OVA Carbon-Mid _____ ppm
OVA Carbon-Eff _____ ppm

Comments: _____

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 2-3-05 Time: 1110
Performed By: JCT Weather: Clouds

Hour Meter: _____ hours

BS-1 thru 10	Initial	Final
Valve Position (% open)	0	0

BS-11 thru 18	Initial	Final
Valve Position (% open)	0	100

Trench #1	Initial	Final
Valve Position (% open)	0	0

Trench #2	Initial	Final
Valve Position (% open)	100	10

Manifold Readings	Initial	Final
Temperature (°F)	91	99
Pressure (psig)	≈1.25	≈8
Flow Rate (scfm)	54	32

Comments: Changed Air Filter - NAPA 6179

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 2-8-05 Time: 910
Performed By: JCT Weather: cloud

Hour Meter: 42575 hours

Trench #1A	Initial	Final
Valve Position (% open)	—	—
Flow Rate (fpm)	—	—

Trench #1B	Initial	Final
Valve Position (% open)	100	100
Flow Rate (fpm)	12,340	12,340

Trench #2	Initial	Final
Valve Position (% open)	—	—
Flow Rate (fpm)	—	

Manifold Readings	Initial	Final
Temperature (°F)	129.1	129.1
Pressure (psig)	≈ 2.25	

Comments: Replace Air Filter - NAPA 6179

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash * Eureka, CA 95501-2138 * 707/441-8855 * FAX: 707/441-8877 *shninfo@shn-engr.com

DAILY FIELD REPORT

Job No. 098179.304
Page of

Project Name	Client/Owner: Conocophillips	Daily Field Report Sequence No	
General Location Of Work: Cop. Eureka	Owner/Client Representative	Date: 2/11/05	Day Of Week: Fri.
General Contractor: Eureka CA	Grading Contractor	Project Engineer: Mike Foget	
Type Of Work: O+M	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather: Clear	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

0945 On site.
0955 Taking reading on the DPE system
1120 Taking reading on the East Biovent system.
1135 Taking reading on the West Biovent system.
1140 Clean and loaded up.
1150 Off site.

1416 Back on site starting system back up and raising hoses on EW-8 & EW-9
1455 Off site

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 2/11/05 Time: 0955
Performed By: DCT Weather: Clear

Extraction Well	Extraction Line	Manifold Readings				Well Head Readings			
		Ball Valve Position (% open)	Line Vacuum (in Hg)	Flow Type (see notes)	OV Conc. (ppm)	Line Vacuum (in Hg)	Depth to Extraction Unit (ft)	Throttle Valve (turns open)	Bleed Valve (% open)
EW-1	H_2O/Air								
	FP								
EW-2	H_2O/Air								
	FP								
EW-3	H_2O/Air								
	FP								
EW-4	H_2O/Air								
	FP								
EW-5	H_2O/Air								
	FP								
EW-6	H_2O/Air								
	FP								
EW-7	H_2O/Air	100	24	C					
	FP								
EW-8	H_2O/Air								
	FP								
EW-9	H_2O/Air								
	FP								
EW-10	H_2O/Air	100	24	C					
	FP								
EW-11	H_2O/Air								
	FP								
EW-12	H_2O/Air								
	FP								

NOTES:
in-Hg = Inches of Mercury
in-Hg = 13.6 in-H_2O

1 ft^3 = 7.48 gallons
FP = Free Product

Flow Types: B = Bubble, S = Slug
C = Churn, R = Ripple
A = Annular

~~OVA Calibrated with~~ Note: Close off EW-7 & 10, open up EW-8, EW-9
~~OVA Type~~ _____

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 2/11/05 Time: 0955

Manifold
Manifold H_2O meter _____ gal
Manifold H_2O flow rate _____ gpm
Manifold vacuum 19 in-Hg
Manifold temp 52° °F

Liquid Ring Pump (LRP)
LRP hr meter 09345.98 hr
LRP oil filter 1.75 psi
LRP vacuum 21.5 in-Hg
Throttle Valve _____ turns closed
Recirculation valve _____ turns open
LRP oil color Dark Honey
LRP oil level 100%
LRP temp 174° °F
Dilution air valve _____ turns open

Water Knock-out Pot
H_2O Discharge Counter 185724 counts
Discharge pressure N/A psi
Inlet vacuum 20.5 in-Hg
Sediment Filter Δ P N/A in-H_2O

Free Product Tank

	Initial	Final
Depth to FP (ft)		
Depth to H_2O (ft)		
Main valve (4")	4 turns open	

Vapor Destruction Unit
Preheat temp (high) 1460 °F
Preheat temp (low) 1419 °F
Preheat SP temp 1425 °F
Exhaust temp (high) 1468 °F
Exhaust temp (low) 1428 °F
Exhaust temp SP 1550 °F
Hour meter 9848.94 hours
OVA well field 48 ppm
OVA pre-burner _____ ppm
OVA post-burner 2.5 ppm
Blower Valve _____ % open
Mode (Burner) or Catalytic

Chart Recorder
Flow _____ in-H_2O
LEL 38 %
Date Storage 12 % full

Propane Supply
Primary pressure 6.5 psi
Secondary pressure less than 1 psi
Operating pressure 10 in-H_2O
Supply tank level 75 %

Air Stripper
Vacuum 2.5 in-H_2O
Air Flow N/A in-H_2O
OVA AS-Eff _____ ppm
OVA Carbon-Mid _____ ppm
OVA Carbon-Eff _____ ppm

Comments: _____

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 2/11/05 Time: 1120
Performed By: DCT Weather:

Hour Meter: 42745 % hours

Trench #1A	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Trench #1B	Initial	Final
Valve Position (% open)	100	100
Flow Rate (fpm)	12110	12110

Trench #2	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Manifold Readings	Initial	Final
Temperature (°F)	127°	127°
Pressure (psig)	2	2

Comments:

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 2/11/05 Time: 1135
Performed By: DCT Weather:

Hour Meter: hours

BS-1 thru 10	Initial	Final
Valve Position (% open)	0	

BS-11 thru 18	Initial	Final
Valve Position (% open)	100	0

Trench #1	Initial	Final
Valve Position (% open)	0	100

Trench #2	Initial	Final
Valve Position (% open)	10%	0

Manifold Readings	Initial	Final
Temperature (°F)	150°	135 and going down
Pressure (psig)	6.25	1.75
Flow Rate (scfm)	50	70

Comments:

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

DAILY FIELD REPORT

Job No. 089179.304
Page 1 of 1

Project Name: COP - Eureka	Client/Owner	Daily Field Report Sequence No	
General Location Of Work: Eureka, CA	Owner/Client Representative	Date: 2-14-05	Day Of Week: Mon
General Contractor	Grading Contractor	Project Engineer: M. Foget	
Type Of Work: Startup System	Grading Contractor, Superintendent, Or Foreman	Supervisor: C. Fisler	
Source & Description Of Fill Material	Weather: overcast	Technician: A. Melody	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

C. Fisher / A. Melody on site + Site Safety meeting
- System Shutdown - Error Message: Water K.O. High H_2O Level
- Shut off well field valve - K.O. tank float stuck (Discharge flow
  - Disassemble & clean H_2O K.O. tank float.
- Start-up System

1045 - off site

(X) Replace O-ring on water flow meter (well field splitter Vault piping)

	Copy given to:	Reported By: A. Melody

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash * Eureka, CA 95501-2138 * 707/441-8855 * FAX: 707/441-8877 *shninfo@shn-engr.com

DAILY FIELD REPORT

Job No. 098179.305
Page 1 of 1

Project Name: COP-Eureka	Client/Owner: ConocoPhillips	Daily Field Report Sequence No:	
General Location Of Work: Eureka, CA	Owner/Client Representative:	Date: 2-16-05	Day Of Week: WEDS
General Contractor: —	Grading Contractor: —	Project Engineer: M. Fuscr	
Type Of Work: System Startup / F.P. Recovery	Grading Contractor, Superintendent, Or Foreman: —	Supervisor: C. Fisher	
Source & Description Of Fill Material: —	Weather: Overcast	Technician: A. Melody	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc): —		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

1030- Arrive @ site | J. Tyler / A. Melody on site
- System Shutdown due to High H_2O in K.O. tank
- Started up system
- Opened all F.P. wells
- drained F.P. tank

1130 - Off site
- system running w/ two wells on-line

1400 on site / Site safety meeting / check system shut off
System Back on Line Reads @ well Head = 12" F.W. 8:9
System Shut off (High Water); There may be an electrical problem @ the control panel. The original site visit the pump turned on when we opened the control panel & @ the second visit when we touched the control panel the pump turned ON. When the pump was working there was NO High water issue.

1445 off site.

	Copy given to:	Reported By: A. Melody

SHN ENGINEERS & GEOLOGISTS
812 W. Wabash Ave. Tel. 707 / 441-8855
Eureka, CA 95501-2138 Fax: 707 / 441-8877

JOB COP-Eureka 048179.305
SHEET NO. 1 OF 1
CALCULATED BY C. Fisher DATE 17th Feb '05
CHECKED BY DATE
SCALE

Field Notes

- System shut-down due to high H_2O in knock-out pot.
- Inspected electrical connections - OK
  - Tightened control circuitry to H_2O discharge pump control circuitry. Shut-off all power during inspection
- Replaced broken O-ring at H_2O flow meter at the Air/Water metering loop
- Restarted system
- System was shutting down even though the actuator float was in the up position. The discharge pump would start-up with the slightest disturbance, such as tapping the control circuitry enclosure
- Observed PLC indicator lights & system was ~~operator~~ operating normally
- System shut-down due to high H_2O in knockout pot
- Replaced Liquid Level Sensor in H_2O knock-out pot
- Restarted system
- System operating normally

CONSULTING ENGINEERS & GEOLOGISTS, INC.
480 Hemsted Drive • Redding, CA 96002 • Tel: 530.221.5424 • FAX: 530.221.0135 • E-mail: shninfo@shn-redding.com
812 W. Wabash • Eureka, CA 95501 • Tel: 707.441.8855 • FAX: 707.441.8877 • E-mail: shninfo@shn-engr.com

DAILY FIELD REPORT

JOB NO 098179.305
Page 1 of

PROJECT NAME: COP- Eureka	CLIENT/OWNER: ConocoPhillips	DAILY FIELD REPORT SEQUENCE NO:	
GENERAL LOCATION OF WORK: Eureka, CA	OWNER/CLIENT REPRESENTATIVE:	DATE: 2-18-05	DAY OF WEEK: Fri
TYPE OF WORK: O:M weekly	WEATHER: Sun / cloud	PROJECT ENGINEER/ SUPERVISOR: MKF	
SOURCE & DESCRIPTION OF FILL MATERIAL:	KEY PERSONS CONTACTED:	TECHNICIANS: JT + ADM	

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, & COMPACTING

915 on Site / Tailgate Site Safty Meeting.
920 Take System Readings.
Run pump test with system on & off.
1.9 Diameter Trial 1
12" Depth
System off
1.9 D
11.5"
Trial 2
System on 1.9 D
10" water
1345 off site

Note: Changed the air filter in the eastern BS system

COPY GIVEN TO:

REPORTED BY:

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 2-18-05 Time: 920
Performed By: JCT ADM Weather: SUN

Hour Meter: _____ hours

BS-1 thru 10	Initial	Final
Valve Position (% open)	0	0

BS-11 thru 18	Initial	Final
Valve Position (% open)	0	0

Trench #1	Initial	Final
Valve Position (% open)	100	0

Trench #2	Initial	Final
Valve Position (% open)	0	100

Manifold Readings	Initial	Final
Temperature (°F)	104	103
Pressure (psig)	1.8	1.5
Flow Rate (scfm)	50	53

Comments: Checked Air Filter → OK

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 2-18-05 Time: 925
Performed By: JCT/KDM Weather: SUN

Hour Meter: 42911 hours

Trench #1A	Initial	Final
Valve Position (% open)	0	0
Flow Rate (fpm)	0	0

Trench #1B	Initial	Final
Valve Position (% open)	100	100
Flow Rate (fpm)	14,154	14,154

Trench #2	Initial	Final
Valve Position (% open)	0	0
Flow Rate (fpm)	0	0

Manifold Readings	Initial	Final
Temperature (°F)	126.6	126.6
Pressure (psig)	2	2

Comments: Changed Air Filter

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 2-18-05 Time: 925

Manifold

Manifold H_2O meter	NA	gal	Manifold vacuum	21	in-Hg
Manifold H_2O flow rate	NA	gpm	Manifold temp	53	°F

Liquid Ring Pump (LRP)

LRP hr meter	9458.02	hr	LRP oil color	Honey	
LRP oil filter	1.4	psi	LRP oil level	95% FULL	
LRP vacuum	22	in-Hg	LRP temp	180	°F
Throttle Valve		turns closed	Dilution air valve	0	turns open
Recirculation valve	4	turns open			

Water Knock-out Pot

H_2O Discharge Counter	18927	counts			
Discharge pressure	NR	psi			
Inlet vacuum	23	in-Hg			
Sediment Filter Δ P	NA	in-H_2O			

Free Product Tank

	Initial	Final	
Depth to FP (ft)	NA	NA	
Depth to H_2O (ft)	↓	↓	
Main valve (4")	4		turns open

Vapor Destruction Unit

Preheat temp (high)	1460	°F	Hour meter	9960	hours
Preheat temp (low)	1425	°F	OVA well field	406	ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1469	°F	OVA post-burner	1.0	ppm
Exhaust temp (low)	1434	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	(Burner) or Catalytic	

Chart Recorder

Flow	NA	in-H_2O	Date Storage	23	% full
LEL	NA	%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	8	in-H_2O
Secondary pressure	0.25	psi	Supply tank level	75	%

Air Stripper

Vacuum	3.5	in-H_2O	OVA AS-Eff		ppm
Air Flow	NA	in-H_2O	OVA Carbon-Mid		ppm
			OVA Carbon-Eff		ppm

Comments:

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 2-18-00 Time: 925
Performed By: JCT/ADM Weather: Sun

Extraction Well	Extraction Line	Manifold Readings				Well Head Readings			
		Ball Valve Position (% open)	Line Vacuum (in Hg)	Flow Type (see notes)	OV Conc. (ppm)	Line Vacuum (in Hg)	Depth to Extraction Unit (ft)	Throttle Valve (turns open)	Bleed Valve (% open)
EW-1	H_2O/Air								
	FP								
EW-2	H_2O/Air								
	FP								
EW-3	H_2O/Air								
	FP								
EW-4	H_2O/Air								
	FP								
EW-5	H_2O/Air								
	FP								
EW-6	H_2O/Air								
	FP								
EW-7	H_2O/Air								
	FP								
EW-8	H_2O/Air	100	23	C					
	FP								
EW-9	H_2O/Air	100	15	C					
	FP								
EW-10	H_2O/Air								
	FP								
EW-11	H_2O/Air								
	FP								
EW-12	H_2O/Air								
	FP								

NOTES:
in-Hg = Inches of Mercury
in-Hg = 13.6 in-H_2O
1 ft^3 = 7.48 gallons
FP = Free Product
Flow Types: B = Bubble, S = Slug, C = Churn, R = Ripple, A = Annular

OVA Calibrated with 98 ppm Calgas
OVA Type PID

CONSULTING ENGINEERS & GEOLOGISTS, INC.
480 Hemsted Drive • Redding, CA 96002• Tel: 530.221.5424 • FAX: 530.221.0135 •E-mail: shrinfo@shn-redding.com
812 W. Wabash • Eureka, CA 95501 • Tel: 707.441.8855 • FAX: 707.441.8877 •E-mail: shrinfo@shn-engr.com

DAILY FIELD REPORT

JOB NO 098179.305
Page 1 of 48

PROJECT NAME: COP Eureka #0701	CLIENT/OWNER: Conocophillips	DAILY FIELD REPORT SEQUENCE NO: 1	
GENERAL LOCATION OF WORK: Eureka, CA	OWNER/CLIENT REPRESENTATIVE: Ed Ralston ~~Monty Crawford~~	DATE: 2-21-05	DAY OF WEEK: Monday
TYPE OF WORK: Semi-annual sampling	WEATHER: Overcast to Partially clear	PROJECT ENGINEER/ SUPERVISOR: Mike Foget / Roland Rueber	
SOURCE & DESCRIPTION OF FILL MATERIAL	KEY PERSONS CONTACTED	TECHNICIAN: David R. Paina	

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, & COMPACTING

0828	arrived at site, Removed lids and caps on MW-6 and MW-29, MW-6 had water in flush mount, bailed out.
0852	started taking water levels decoming the sounder after each well by scrubbing it with liquinox then Rinsing it with DI water, secured wells MW-6 and MW-29 with caps and lids.
0910	arrived inside Bulk Farm fence and Removed lids and caps on 14 wells, MW-1, 2, 3, 31, 32, 33, 20, 19, 22, and 34 had water in flush mount bailed out, Removed socks from MW-3, MW-7, and MW-17.
1014	started taking water levels again decoming the sounder in the same way as before, secured all water wells with caps and lids, MW-7 and MW-17 I have to fix sock basket cable with a new one as old ones were broke/eaten up.
1200	started Removing lids and caps on last 3 clean water wells and the 9 SPH wells.
1236	I started taking water levels on last 3 clean water wells decoming the sounder in the same manner as before, secured the 3 wells with caps and lids.
1255	I started taking the SPH and water levels Readings with the interface probe decoming it by scrubbing it with simple green then Rinsing it with DI water then drying it with a paper towel, Secured all SPH wells except MW-3, 7 and 17 with caps and lids.
1345	Repaired hanging cable in MW-3, 7, and 17 with new cable, secured the 3 wells with caps and lids.
1410	OFF SITE

COPY GIVEN TO:

REPORTED BY: David R. Paina

CONSULTING ENGINEERS & GEOLOGISTS, INC.
480 Hemsted Drive • Redding, CA 96002 • Tel: 530.221.5424 • FAX: 530.221.0135 • E-mail: shninfo@shn-redding.com
812 W. Wabash • Eureka, CA 95501 • Tel: 707.441.8855 • FAX: 707.441.8877 • E-mail: shninfo@shn-engr.com

DAILY FIELD REPORT

JOB NO 098179.305
Page 2 of 4B

PROJECT NAME	CLIENT/OWNER	DAILY FIELD REPORT SEQUENCE NO
COP Eureka #0201	Conocophillips	2
GENERAL LOCATION OF WORK: Eureka, CA	OWNER/CLIENT REPRESENTATIVE: Ed Ralston	DATE: 2-22-05 / DAY OF WEEK: Tuesday
TYPE OF WORK: Semi-annual sampling	WEATHER: Overcast to clear	PROJECT ENGINEER/SUPERVISOR: Mike Foget/Roland Rueber
SOURCE & DESCRIPTION OF FILL MATERIAL	KEY PERSONS CONTACTED	TECHNICIAN: David R. Paine

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, & COMPACTING

0935 arrived at site. Removed lids and caps on mw-6 and mw-29.
1005 I started purging mw-6 with a disposable bailer, purge water was caught in a graduated 4 gal. bucket, well went dry.
1012 I started purging mw-29 with a disposable bailer, purge water was caught in a graduated 4 gal. bucket.
1115 I sampled mw-29, secured well with cap and lid.
1125 I sampled mw-6, secured well with cap and lid.
1150 Removed lids and caps on mw-1, mw-2, mw-20, and mw-24.
1201 I started purging mw-1 with a disposable bailer, purge water was caught in a graduated 4 gal. bucket, well went dry.
1208 I started purging mw-2 with a disposable bailer, purge water was caught in a graduated 4 gal. bucket.
1240 I sampled mw-2, secured well with cap and lid.
1250 I sampled mw-1, secured well with cap and lid.
1309 I started purging mw-20 with a disposable bailer, purge water was caught in a graduated 4 gal. bucket.
1330 I sampled mw-20, secured well with cap and lid.
1337 I started purging mw-24 with a disposable bailer, purge water was caught in a graduated 4 gal. bucket.
1415 I sampled mw-24, secured well with cap and lid.
1431 I started purging mw-22 with a disposable bailer, purge water was caught in a graduated 4 gal. bucket.
1500 I sampled mw-22, secured well with cap and lid.
1510 I pulled the sock out of mw-7 and started purging it with a disposable bailer, purge water was caught in a graduated 4 gal. bucket.
1600 I sampled mw-7, inserted sock back into well then secured well with cap and lid.
1686 OFF site

Note All decon water and purge water was caught then poured into 3-55 gal. plastic drums stored behind the remediation shed dual phase.

COPY GIVEN TO:

REPORTED BY: David R Paine

CONSULTING ENGINEERS & GEOLOGISTS, INC.
480 Hemsted Drive • Redding, CA 96002 • Tel: 530.221.5424 • FAX: 530.221.0135 • E-mail: shninfo@shn-redding.com
812 W. Wabash • Eureka, CA 95501 • Tel: 707.441.8855 • FAX: 707.441.8877 • E-mail: shninfo@shn-engr.com

DAILY FIELD REPORT

JOB NO 098179.305
Page 3 of 48

PROJECT NAME: COP Eureka #0201	CLIENT/OWNER: Conocophillips	DAILY FIELD REPORT SEQUENCE NO: 3	
GENERAL LOCATION OF WORK: Eureka, CA	OWNER/CLIENT REPRESENTATIVE: Ed Ralston	DATE: 2-23-05	DAY OF WEEK: Wednesday
TYPE OF WORK: Semi-annual sampling	WEATHER: Overcast	PROJECT ENGINEER/ SUPERVISOR: Mike Foget/Roland Rueber	
SOURCE & DESCRIPTION OF FILL MATERIAL	KEY PERSONS CONTACTED	TECHNICIAN: David R. Paine	

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, & COMPACTING

0926	arrived at site, removed lids and caps on MW-19, 31, 4, 30, 32, 5, and MW-33.
0956	I started taking DO readings.
1052	I started purging MW-19 with a disposable bailer, purge water was caught in a graduated 4 gal. bucket, well went dry.
1111	I started purging MW-4 with a disposable bailer, purge water was caught in a graduated 4 gal. bucket, well went dry.
1132	I started purging MW-5 with a disposable bailer, purge water was caught in a graduated 4 gal. bucket.
1205	I sampled MW-19, secured well with cap and lid.
1215	I sampled MW-5, secured well with cap and lid.
1228	I started purging MW-31 with a disposable bailer, purge water was caught in a graduated 4 gal. bucket.
1300	I sampled MW-31, secured well with cap and lid.
1310	I sampled MW-4, secured well with cap and lid.
1320	I started purging MW-30 with a disposable bailer, purge water was caught in a graduated 3 gal. bucket, well went dry.
1330	I started purging MW-33 with a disposable bailer, purge water was caught in a graduated 4 gal. bucket, well went dry.
1348	I started purging MW-32 with a disposable bailer purge water was caught in a graduated 4 gal. bucket, well went dry.
1415	Removed lid and cap on MW-34.
1430	I sampled MW-30, secured well with cap and lid.
1440	I sampled MW-33 secured well with cap and lid.
1448	I started purging MW-34 with a disposable bailer, purge water was caught in a graduated 4 gal. bucket.
1505	Removed lid and sock from MW-17.
1515	I sampled MW-34, secured well with cap and lid.
1523	I started purging MW-17 with a disposable bailer, purge water was caught in a graduated 4 gal. bucket.
1610	I sampled MW-17, replaced sock in well and secured well with cap and lid.

COPY GIVEN TO

REPORTED BY: D R Paine

CONSULTING ENGINEERS & GEOLOGISTS, INC.
480 Hemsted Drive • Redding, CA 96002 • Tel: 530.221.5424 • FAX: 530.221.0135 • E-mail: shninfo@shn-redding.com
812 W. Wabash • Eureka, CA 95501 • Tel: 707.441.8855 • FAX: 707.441.8877 • E-mail: shninfo@shn-engr.com

DAILY FIELD REPORT

JOB NO 098179.305
Page 4 of 48

PROJECT NAME: COP Eureka #0201	CLIENT/OWNER: Conocophillips	DAILY FIELD REPORT SEQUENCE NO: 3	
GENERAL LOCATION OF WORK: Eureka, CA	OWNER/CLIENT REPRESENTATIVE: Ed Ralston	DATE: 2-23-05	DAY OF WEEK: Wednesday
TYPE OF WORK: Semi-annual sampling	WEATHER: Overcast	PROJECT ENGINEER/SUPERVISOR: Mike Foget/Roland Rueber	
SOURCE & DESCRIPTION OF FILL MATERIAL	KEY PERSONS CONTACTED	TECHNICIAN: David R. Paine	

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, & COMPACTING

1620	I sampled MW-3?, secured well with cap and lid.
1628	I removed lid and sock from MW-3 and started purging with a disposable bailer, purge water was caught in a 5 gal. bucket.
1700	I sampled MW-3, then replaced sock and secured well with cap and lid.
1717	OFF SITE
Note	All decon water and purge water was caught then poured into 2-55gal. plastic drums that are stored outside the dual phase remediation shed

COPY GIVEN TO:

REPORTED BY:

CONSULTING ENGINEERS & GEOLOGISTS, INC.
480 Hemsted Drive • Redding, CA 96002 • Tel: 530.221.5424 • FAX: 530.221.0135 • E-mail: shninfo@shn-redding.com
812 W. Wabash • Eureka, CA 95501 • Tel: 707.441.8855 • FAX: 707.441.8877 • E-mail: shninfo@shn-engr.com

DAILY FIELD REPORT

JOB NO 098179.305
Page 5 of 48

PROJECT NAME: COP Eureka #0201	CLIENT/OWNER: Conocophillips	DAILY FIELD REPORT SEQUENCE NO: 4	
GENERAL LOCATION OF WORK: Eureka, CA	OWNER/CLIENT REPRESENTATIVE: Ed Ralston	DATE: 2-24-05	DAY OF WEEK: Thursday
TYPE OF WORK: Semi-annual sampling	WEATHER: Overcast	PROJECT ENGINEER / SUPERVISOR: Mike Foget / Roland Rueber	
SOURCE & DESCRIPTION OF FILL MATERIAL	KEY PERSONS CONTACTED	TECHNICIAN: David R. Paine	

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, & COMPACTING

0759	Arrived at site, Removed lids and caps on mw-13, 15, and 25.
0812	I started purging mw-13 with a disposable bailer, purge water was caught in a graduated 4 gal. bucket.
0830	I sampled mw-13, secured well with cap and lid.
0839	I started purging mw-25 with a disposable Bailer, purge water was caught in a graduated 4 gal. bucket.
0900	I sampled mw-25; secured well with cap and lid.
0908	I started purging mw-15 with a disposable bailer, purge water was caught in a graduated 4 gal. bucket.
1005	I sampled mw-15, secured well with cap and lid.
0920	I started purging mw-27 with a disposable bailer, purge water was caught in 5 gal. buckets, well went dry.
1025	I sampled mw-27, secured well with cap and lid.
1034	I started purging mw-26 with a disposable bailer, purge water was caught in 5 gal. buckets.
1100	I sampled mw-26, secured well with cap and lid.
1112	OFF SITE
1146	Returned to site with interface meter and the peristalic pump.
1158	I started taking free product and water level readings on the extraction wells decoming the interface probe by scrubbing it with simple green then Rinsing it with DI water then drying it with a paper towel.
1308	Chris Fisher on site to purge extraction wells with the dual phase remediation system, system had been off line since 2/19/05 @0900 AM.
1355	sampled EW-4 with the peristalic pump.
1410	Sampled EW-3 with the peristalic pump.
1425	sampled EW-5 with the peristalic pump.
1440	sampled EW-6 with the peristalic pump.
1450	sampled EW-2 with the peristalic pump.
1500	sampled EW-7 with the peristalic pump.

COPY GIVEN TO: REPORTED BY: [illegible]

CONSULTING ENGINEERS & GEOLOGISTS, INC.
480 Hemsted Drive • Redding, CA 96002 • Tel: 530.221.5424 • FAX: 530.221.0135 • E-mail: shninfo@shn-redding.com
812 W. Wabash • Eureka, CA 95501 • Tel: 707.441.8855 • FAX: 707.441.8877 • E-mail: shninfo@shn-engr.com

DAILY FIELD REPORT

JOB NO 098179.305
Page 6 of 48

PROJECT NAME	CLIENT/OWNER	DAILY FIELD REPORT SEQUENCE NO
COP Eureka #0201	Conocophillips	4
GENERAL LOCATION OF WORK: Eureka, CA	OWNER/CLIENT REPRESENTATIVE: Ed Rolston	DATE: 2-24-05 / DAY OF WEEK: Thursday
TYPE OF WORK: Semi-annual sampling	WEATHER: Overcast	PROJECT ENGINEER/ SUPERVISOR: Mike Foget/Roland Rueber
SOURCE & DESCRIPTION OF FILL MATERIAL	KEY PERSONS CONTACTED	TECHNICIAN: David R. Paine

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, & COMPACTING

1510	sampled EW-8 with the peristalic pump.
1525	sampled EW-9 with the peristalic pump.
1540	sampled EW-10 with the peristalic pump, Chris F. off site
1555	sampled EW-11 with the peristalic pump.
1610	sampled EW-1 with the peristalic pump.
1630	sampled EW-12 with the peristalic pump.
1636	OFF SITE
Note	All decon water and purge water was caught then poured in 2-50gal. plastic drums that are stored outside the dual phase remediation shed.

COPY GIVEN TO:

REPORTED BY: David R. Paine

CONSULTING ENGINEERS & GEOLOGISTS, INC.
480 Hemsted Drive • Redding, CA 96002 • Tel: 530.221.5424 • FAX: 530.221.0135 • E-mail: shninfo@shn-redding.com
812 W. Wabash • Eureka, CA 95501 • Tel: 707.441.8855 • FAX: 707.441.8877 • E-mail: shninfo@shn-engr.com

DAILY FIELD REPORT

JOB NO 098179.305
Page 7 of 48

PROJECT NAME: COP Eureka #0201	CLIENT/OWNER: Conocophillips	DAILY FIELD REPORT SEQUENCE NO: 5	
GENERAL LOCATION OF WORK: Eureka, CA	OWNER/CLIENT REPRESENTATIVE: Ed Ralston	DATE: 2-25-05	DAY OF WEEK: Friday
TYPE OF WORK: Semi-annual sampling	WEATHER: Overcast	PROJECT ENGINEER/ SUPERVISOR: Mike Poget / Roland Rueber	
SOURCE & DESCRIPTION OF FILL MATERIAL	KEY PERSONS CONTACTED	TECHNICIAN: David R. Paine	

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, & COMPACTING

0858	arrived at site.
0910	started taking vapor Readings on the 28 wells.
1200	OFF SITE

COPY GIVEN TO:

REPORTED BY: David R. Paine

WELL GAUGING SHEET
EUREKA BULK PLANT #0201
1200 RAILROAD AVENUE

NAME David R. Paine
JOB # 094179.305
DATE ~~2-22~~ 2-21-05

WELL NO.	TIME	ELEV. OF MEAS. POINT	DEPTH TO LIQUID (FT)	DEPTH TO WATER (FT)	SPH PRESENT (Y/N) AND THICKNESS	WATER SURFACE ELEV.	PRIOR SPH	COMMENTS
MW-1	1019	10.02	6.14	6.14	N	3.88	N	
MW-2	1014	10.41	6.94	6.94	N	3.47	N	
MW-3*	1304	7.65	5.08	5.08	Y	2.57	Y	
MW-4	1042	7.24	3.14	3.14	N	4.10	Y	
MW-5	1045	7.40	3.99	3.99	N	3.41	N	
MW-6	0857	8.86	4.52	4.52	N	4.34	N	
MW-7*	1051	7.99	4.56	4.56	Y	3.43	Y	
MW-9	1255	7.67	5.38	5.38	Y	2.29	Y	
MW-10	1257	7.28	3.71	3.71	Y	3.57	Y	
MW-11	1259	7.33	3.15	3.15	Y	4.18	Y	
MW-12	1301	7.43	3.23	3.23	Y	4.20	Y	
MW-13*	1243	6.61	4.06	4.06	N	2.55	N	
MW-15	1236	6.31	3.13	3.13	N	3.18	N	
MW-16*	1317	7.42	8.13	8.28	Y 0.15	0.74	Y	
MW-17	1056	6.92	4.02	4.02	Y	2.90	Y	
MW-19	1027	9.84	5.65	5.65	N	4.19	N	
MW-20	1030	7.33	2.46	2.46	N	4.87	N	
MW 22	1048	6.59	3.34	3.34	N	3.25	N	
MW-24*	1046	6.31	3.72	3.72	N	2.59	N	
MW-25*	1239	6.11	3.87	3.87	N	2.24	N	
MW-26	1308	7.00	4.55	4.55	Y	2.45	Y	
MW-27	1312	7.10	5.00	5.00	Y	2.10	Y	
MW-28	1310	7.10	5.03	5.09	Y 0.06	2.01	Y	
MW-29*	0900	8.11	5.10	5.10	N	3.01	N	

* Deep Zone Well

WELL GAUGING SHEET
EUREKA BULK PLANT #9201
1200 RAILROAD AVENUE

NAME David R. Paine
JOB # 098179.305
DATE 2-21-05

WELL NO.	TIME	ELEV. OF MEAS. POINT	DEPTH TO LIQUID (FT)	DEPTH TO WATER (FT)	SPH PRESENT (Y/N) AND THICKNESS	WATER SURFACE ELEV.	PRIOR SPH	COMMENTS
MW-30	1040	5.90	2.89	2.89	N	3.01	N	
MW-31	1036	7.41	2.46	2.46	N	4.95	N	
MW-32	1033	6.43	2.77	2.77	Y	3.66	Y	
MW-33	1038	6.81	1.83	1.83	N	4.98	Y	
MW-34*	1059	7.56	4.90	4.90	Y	2.66	N	
P-20*	1103	8.77	6.08	6.08	N	2.69	N	
MP-1	0852	10.16	6.15	6.15	N	4.01	N	
EW-1	1241	6.72	4.79	4.80	Y 0.01			
EW-2	1211	6.97	5.06	5.06	Y	1.91		
EW-3	1209	6.90	4.78	4.78	N	2.12		
EW-4	1158	6.65	4.80	4.80	N	1.85		
EW-5	1200	6.90	5.07	5.07	N	1.83		
EW-6	1219	6.83	4.95	4.95	N	1.88		
EW-7	1222	6.78	5.01	5.03	Y 0.02			
EW-8	1227	6.73	4.93	4.93	N	1.80		
EW-9	1229	6.37	4.60	4.60	N	1.77		
EW-10	1231	6.93	5.04	5.06	Y 0.02			
EW-11	1237	6.53	4.47	4.47	Y	2.06		
EW-12	1256	6.76	4.97	4.97	Y	1.79		

* Deep Zone Well

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

EQUIPMENT CALIBRATION SHEET

Name: David R. Laine

Project Name: COP Eureka #0201

Reference No.: 098179.305

Date: 2/22-24/05

Equipment: ☒ pH & EC ☐ PID ☐ $GTCO_2$ ☐ GTLEL
☐ Turbidity ☒ Other Dissolved Oxygen Meter YSI95

Description of Calibration Procedure and Results:

pH-Ec meter is calibrated using a 2 buffer method with 7.01 and 4.01, the Ec (conductivity) is set at 1413 µS.

DO meter is self calibrating with the Altimeter set at 0.

COP-Eureka
098179.305
Semi-Annual Groundwater and Vadose Zone Monitoring

2/23 & 2/25 2005

Semi-Annual Groundwater and Vadose Zone Monitoring COP-Eureka						
Well	DO (mg/L)	DCO_2 (mg/L)	Eh (mV)	O_2 (%)	CO_2 (%)	VOC (ppm)
MW-4	0.68	35	112	19.1%	1.6%	280
MW-5	1.01	45	128	12.0%	5.2%	660
MW-9				20.9%	0.0	0
MW-10				20.9%	0.0	0
MW-11				20.9%	0.0	0
MW-12				20.9%	0.0	0
MW-19	3.23	40	90	15.1%	5.9%	460
MW-20				20.8%	1.2%	240
MW-26				8.3%	8.8%	79% LEL
MW-27				10.3%	5.8%	81% LEL
MW-28				-0.4	19.2%	9% LEL
MW-30	0.65	30	106	18.9%	3.3%	540
MW-31	0.69	50	104	20.1%	0.4%	280
MW-32	0.74	160	-60	11.8%	4.1%	460
MW-33	3.25	30	111	18.8%	2.8%	560
MW-34				3.5%	12.3%	840
EW-1				20.5%	0.4%	50% LEL
EW-2				13.5%	3.5%	8960
EW-3				15.0%	6.7%	620
EW-4				20.9%	0.4%	120
EW-5				4.5%	9.0%	1,620
EW-6				16.8%	3.4%	880
EW-7				-0.5	16.7%	8% LEL
EW-8				On line		
EW-9				On line		
EW-10				14.8%	3.3%	93% LEL
EW-11				18.4	1.0%	33% LEL
EW-12				0.1%	12.0%	9% LEL

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name: COP Eureka #0201
Project No.: 098179.305
Location: Eureka, CA
Well #: MW-1
Hydrocarbon Thickness/Depth (feet): NA

Date/Time: 2-22-05
Sampler Name: David R. Paine
Sample Type: Ground water
Weather: Partially cloudy
Key Needed: YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
12.46	-	6.14	=	6.32	x	0.163	=	1.03

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1201							0 gal.	
1203				838	57.1°	6.89	1.25 gal.	Dry
1222				871	56.9°	6.94	2.25 gal.	Dry
1233				897	57.5°	6.85	gal.	Dry
1250	Sample Time							

Purge Method: Hand Bail
Total Volume Removed: 3.25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-1	1 liter Amber	None	STL	TPHD

Well Condition: Poor, lid won't screw on anymore
Remarks: Recharged to 7.91 at sampling Time

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 •shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-22-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	MW-2	Weather	Partially cloudy
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
12.39	-	6.94	=	5.45	x	0.163	=	0.89

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1208							0 gal.	
1210				853	57.7°	6.72	1 gal.	
1213				849	57.3°	6.78	2 gal.	
1217				850	57.4°	6.76	3 gal.	
1240	sample Time							

Purge Method: Hand Bail

Total Volume Removed: 3.00 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-2	1 liter Amber	None	STL	TPHD

Well Condition: Poor, lid won't screw on anymore

Remarks: Recharged to 6.92 at sampling Time

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-23-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	MW-3	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	0.00	Key Needed:	YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
13.60	-	5.08	=	8.52	x	0.163	=	1.39

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1628							0 gal.	start
							7 gal.	stop
1700	sample Time							

Purge Method: Hand Bail

Total Volume Removed: 7.00 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-3	1 liter Amber	None	STL	TPHD
MW-3	3 - 40ml VOA's	YES HCL	STL	TPHG / BTEX / MTBE

Well Condition: Poor, all 3 flanges are stripped out.

Remarks: Recharged to at sampling Time

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-23-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	MW-4	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES Dolphin

Total Well Depth (feet)		Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
12.85	-	3.14	=	9.71	x	0.163	=	1.58

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1007	0.68						0 gal.	
1111	↓	35	112				0.25 gal.	
1119	↓			839	56.8°	6.74	1.75 gal.	Dry
1145	No flow then cell			925	57.2°	6.87	2.50 gal.	Dry
1310	Sample	Time						

Purge Method: Hand Bail

Total Volume Removed: 2.50 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-4	3-40ml VOA's	YES HCL	STL	TPHG/[redacted]
MW-4	3-40ml VOA's	YES HCL	STL	HVOC
MW-4	1 liter Amber	None	STL	TPHD

Well Condition: Bad, lid is missing

Remarks: Recharged to 6.56 at sampling time

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name: COP Eureka #0201
Project No.: 098179.305
Location: Eureka, CA
Well #: MW-5
Hydrocarbon Thickness/Depth (feet): NA

Date/Time: 2-23-05
Sampler Name: David R. Paine
Sample Type: Ground water
Weather: Overcast
Key Needed: YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
14.46	-	3.99	=	10.47	x	0.163	=	1.71

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1013	1.01						0 gal.	
1132		45	128				0.75 gal.	
1141	↓			354	57.9°	5.69	1.25 gal.	
1151	No Flow			357	58.3°	5.72	3.50 gal.	
1156	Thru cell			367	58.2°	5.69	5.25 gal.	
1215	Sample Time							

Purge Method: Hand Bail
Total Volume Removed: 5.25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-5	1 liter Amber	None	STL	TPHD
MW-5	3-40ml VOA's	YES HCL	STL	TPHG

Well Condition:
Remarks: Recharged to 4.35 at sampling Time

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name: COP Eureka #0201
Project No.: 098179.305
Location: Eureka, CA
Well #: MW-6
Hydrocarbon Thickness/Depth (feet): NA

Date/Time: 2-22-05
Sampler Name: David R. Paine
Sample Type: Ground water
Weather: Overcast
Key Needed: YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
13.25	-	4.52	=	8.73	x	0.653	=	5.70

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1005							0 gal.	
1008				956	57°	6.47	6.50 gal.	
1026				961	57.4°	6.64	11.50 gal.	Dry
1043				994	57.5°	6.73	14.25 gal.	Dry
1125	Sample Time							

Purge Method: Hand Bail
Total Volume Removed: 14.25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-6	1 liter Amber	None	STL	TPHD

Well Condition: Good
Remarks: Recharged to 7.63 at sampling Time

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name: COP Eureka #0201
Project No.: 098179.305
Location: Eureka, CA
Well #: MW-7
Hydrocarbon Thickness/Depth (feet): 0.00
Date/Time: 2-22-05
Sampler Name: David R. Paine
Sample Type: Ground water
Weather: Clear
Key Needed: YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
15.50	-	4.56	=	10.94	x	0.653	=	7.14

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1510							0 gal	
1513				435	60.1°	6.41	7.50 gal.	
1527				417	60.2°	6.41	14.50 gal.	
1546				439	59.5°	6.42	22.25 gal.	
1600	Sample	Time						

Purge Method: Hand Bail
Total Volume Removed: 22.25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-7	3 - 40ml VOA's	YES HCL	STL	TPHG
MW-7	1 liter Amber	None	STL	TPHD

Well Condition: Good
Remarks: Recharged to 8.65 at sampling time

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-24-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	MW-13	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
13.50	-	4.06	=	9.44	x	0.163	=	1.54

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
0812							0 gal.	
0814				289	54.3°	7.55	1.25 gal.	
0819				294	54.3°	7.63	3.25 gal.	
0824				294	54.3°	7.66	4.25 gal.	
0830	Sample Time							

Purge Method: Hand Bail

Total Volume Removed: 4.25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-13	1 liter Amber	None	STL	TPHD

Well Condition:

Remarks: Recharged to 5.65 at sampling Time

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 •shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-24-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	MW-15	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
14.10	-	3.13	=	10.97	x	0.163	=	1.79

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
0908							0 gal.	
0912				1305	56°	6.85	2 gal.	
0924				1420	56.3°	6.70	3.75 gal.	
0936				1617	56.4°	6.69	5.50 gal.	
0947				1647	56.6°	6.65	7.25 gal.	
0956				1769	56.5°	6.68	9 gal.	
1005	Sample	Time						

Purge Method: Hand Bail

Total Volume Removed: 9.00 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-15	3-40ml VOA's	YES HCL	STL	TPHG/BTEX/MTBE

Well Condition: Good

Remarks: Recharged to 5.60 at sampling time

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-24-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	MW-16	Weather	
Hydrocarbon Thickness/Depth (feet):	0.15	Key Needed:	YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
13.80	-	8.28	=	5.52	x	0.163	=	0.90

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
		Free Product						
	Sample	Time						

Purge Method: Hand Bail Total Volume Removed: _____ (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-16	3-40ml VOA's	YES HCL	STL	TPHG / BTEX / MTBE
MW-16	1 liter Amber	None	STL	TPHD

Well Condition: Poor, all 3 flanges are stripped out

Remarks: Recharged to at sampling time

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 •shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-23-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	MW-17	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	0.00	Key Needed:	No

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
14.10	-	4.02	=	10.08	x	0.163	=	1.64

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1522							0 gal.	
1524				2236	60.2°	6.59	1.25 gal.	
1536				2711	60.1°	6.30	3.50 gal.	
1544				2864	60.6°	6.03	5 gal.	
1549				2872	60.6°	6.13	6.75 gal.	
1556				2854	60.4°	6.09	8.25 gal.	
1610	Sample Time							

Purge Method: Hand Bail

Total Volume Removed: 8.25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-17	1 liter Amber	None	STL	TPHD
MW-17	3-40 ml VOA's	YES HCl	STL	TPHG/BTEX/MTBE

Well Condition: Poor, all 3 flanges are stripped out.

Remarks: Recharged to 5.81 at sampling Time

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name: COP Eureka #0201
Project No.: 098179.305
Location: Eureka, CA
Well #: MW-19
Hydrocarbon Thickness/Depth (feet): NA
Date/Time: 2-23-05
Sampler Name: David R. Paine
Sample Type: Ground water
Weather: Overcast
Key Needed: YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
16.21	-	5.65	=	10.56	x	0.163	=	1.72

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1001	3.23						0 gal.	
1052	↓	40	90				0.25 gal.	
1100	↓			1263	55°	5.76	1.75 gal.	
1106	No Flow			1347	55.7°	5.94	3 gal.	Dry
1125	Thru cell			1414	55.6°	5.96	4.75 gal.	Dry
1205	Sample Time							

Purge Method: Hand Bail
Total Volume Removed: 4.75 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-19	1 liter Amber	None	STL	TPHD

Well Condition: Poor, all 3 flanges are stripped out
Remarks: Recharged to 6.22 at sampling Time

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-22-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	MW-20	Weather	Clear
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
14.35	-	2.46	=	11.89	x	0.163	=	1.94

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1309							0 gal.	
1312				237	57.6°	6.10	2 gal.	
1319				239	56.9°	6.18	4 gal.	
1324				234	57.5°	6.12	6 gal.	
1330	Sample Time							

Purge Method: Hand Bail

Total Volume Removed: 6.00 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-20	1 liter Amber	None	STL	TPHD

Well Condition: Poor, all 3 flanges are stripped out

Remarks: Recharged to 3.26 at sampling Time

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

ject Name: COP Eureka #0201 — Date/Time: 2-22-05
ject No.: 098179.305 — Sampler Name: David R. Paine
ation: Eureka, CA — Sample Type: Ground water
l #: MW-22 — Weather: Clear
drocarbon Thickness/Depth (feet): NA — Key Needed: YES Dolphin

Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
1.07	-	3.34	=	10.73	x	0.163	=	1.75

ne	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1							0 gal.	
3				101	61.6°	6.0?	1.75 gal.	
1				97	61.4°	6.09	3.50 gal.	
8				97	61.4°	6.12	5.25 gal.	
0	Sample Time							

Purge Method: Hand Bail — Total Volume Removed: 5.25 (gal)

oratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-22	1 liter Amber	None	STL	TPHD

Well Condition: Poor, one broken flange
Remarks: Recharged to 4.50 at sampling Time

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-22-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	MW-24	Weather	Clear
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
47.90	-	3.72	=	44.18	x	0.163	=	7.20

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1337							0 gal.	
1345				>3999	62.1°	6.89	7.25 gal.	
1355				>3999	62.5°	6.93	14.50 gal.	
1404				>3999	62.8°	6.97	21.75 gal.	
1415	Sample	Time						

Purge Method: Hand Bail Total Volume Removed: _____ (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-24	1 liter amber	None	STL	TPHD
MW-24	3-40ml VOA's	YES HCL	STL	TPHG

Well Condition: Good

Remarks: Recharged to 4.51 at sampling time

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-24-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	MW-25	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
14.10	-	3.87	=	10.23	x	0.163	=	1.67

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
0839							0 gal.	
0841				672	57.1°	7.00	1.75 gal.	
0845				674	57.6°	7.04	3.50 gal.	
0851				674	57.6°	7.01	5.25 gal	
0900	Sample Time							

Purge Method: Hand Bail

Total Volume Removed: 5.25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-25	1 liter Amber	None	STL	TPHD

Well Condition: Good

Remarks: Recharged to 5.41 at sampling Time

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-24-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	MW-25	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
14.10	-	3.87	=	10.23	x	0.163	=	1.67

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
0839							0 gal.	
0841				672	57.1°	7.00	1.75 gal.	
0845				674	57.6°	7.04	3.50 gal	
0851				674	57.6°	7.01	5.25 gal	
0900	Sample Time							

Purge Method: Hand Bail

Total Volume Removed: 5.25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-25	1 liter Amber	None	STL	TPHD

Well Condition: Good

Remarks: Recharged to 5.41 at sampling Time

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-24-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	MW-27	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	0.00	Key Needed:	YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
14.35	-	5.00	=	9.35	x	0.653	=	6.11

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
0920							0 gal	start
0934							12 gal.	DRY stop
1025	Sample	Time						

Purge Method: Hand Bail

Total Volume Removed: 12.00 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-27	3-40ml VOA's	YES HCL	STL	TPHG / BTEX / MTBE
MW-27	1 liter Amber	None	STL	TPHD

Well Condition:

Remarks: Recharged to at sampling time

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-6855 • FAX: 707/441-6877 •shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-24-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	MW-28	Weather	
Hydrocarbon Thickness/Depth (feet):	0.06	Key Needed:	YES

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
13.97	-	5.09	=	8.88	x	0.653	=	5.80

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
		Free Product						
	Sample	Time						

Purge Method: Hand Bail Total Volume Removed: _____ (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-28	3-40ml VOA's	YES HCL	STL	TPHG / BTEX / MTBE
MW-28	1 liter Amber	None	STL	TPHD

Well Condition: Poor, 2 stripped out flanges

Remarks: Recharged to at sampling time

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-22-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	MW-29	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
50.09	-	5.10	=	44.99	x	0.163	=	7.33

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1012							0 gal.	
1020				>3999	58°	7.00	7.50 gal.	
1038				>3999	58.1°	7.04	15 gal.	
1055				>3999	58.2°	7.04	22.50 gal.	
1115	Sample	Time						

Purge Method: Hand Bail

Total Volume Removed: 22.50 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-29	3-40ml VOA's	YES HCL	STL	TPHG/BTEX/MTBE
MW-29	3-40ml VOA's	YES HCL	STL	HVOC
MW-29	1 liter Amber	None	STL	TPHD

Well Condition: Poor, 3 stripped out flanges

Remarks: Recharged to 4.86 at sampling time

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-23-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	MW-30	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
8.22	-	2.89	=	5.33	x	0.163	=	0.87

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1026	0.65						0 gal.	
1320		30	106				0.25 gal.	
1327	V			387	56.6°	6.19	1 gal.	Dry
1355	No Flow thru cell			415	56.4°	6.27	1.25 gal.	Dry
1430	Sample	Time						

Purge Method: Hand Bail

Total Volume Removed: 1.25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-30	3-40ml VOA's	YES HCl	STL	HVOC

Well Condition: Good

Remarks: Recharged to 6.61 at sampling time

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-23-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	MW-31	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
8.30	-	2.46	=	5.84	x	0.163	=	0.95

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1020	0.67						0 gal.	
1228	↓	50	104				0.25 gal.	
1234	↓			1069	55.2°	6.82	1 gal.	
1237	No Flow			1213	55.1°	6.85	2 gal.	
1243	Hand cell			1154	55.1°	6.92	3 gal.	
1247				1342	55.3°	6.89	4 gal.	
1251				1249	55.2°	6.96	5 gal.	
1300	Sample Time							

Purge Method: Hand Bail — Total Volume Removed: 5.00 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-31	1 liter Amber	None	STL	TPHD
MW-31	3-40ml VOA's	YES HCL	STL	HVOC

Well Condition:

Remarks: Recharged to 3.43 at sampling Time

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-23-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	MW-32	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
8.35	-	2.77	=	5.58	x	0.163	=	0.91

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1039	0.74						0 gal	
1348	↓	160	-60				0.25 gal.	
1400	↓			790	54.2°	6.77	1 gal.	
1411	No Flow			1041	54.9°	6.85	2 gal.	Dry
1441	than still			828	55°	6.87	2.50 gal.	Dry
1620	sample Time							

Purge Method: Hand Bail

Total Volume Removed: 2.50 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-32	1 liter Amber	None	STL	TPHD
MW-32	3-40ml VOA's	YES HCL	STL	TPHG / MTBE
MW-32	3-40ml VOA's	YES HCL	STL	HVOC

Well Condition: Good

Remarks: Recharged to 6.39 at sampling Time

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-23-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	MW-33	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
8.40	-	1.83	=	6.57	x	0.163	=	1.07

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1032	3.25						0 gal.	
1330		30	[illegible]				0.25 gal.	
1337	↓			457	56.1°	5.98	1.25 gal.	
1342	No Flow			631	56.5°	6.35	2.25 gal.	Dry
1406	than cell			540	56.4°	6.43	3.25 gal.	Dry
1440	sample Time							

Purge Method: Hand Bail

Total Volume Removed: 3.25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-33	1 liter Amber	None	STL	TPHD

Well Condition: Good

Remarks: Recharged to 4.72 at sampling Time

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-23-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	MW-34	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
13.90	-	4.90	=	9.00	x	0.653	=	5.88

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1448							0 gal.	
1450				488	57.5°	6.35	7 gal.	
1456				457	57.9°	6.36	12 gal.	
1501				438	58.2	6.30	19 gal.	
1515	sample Time							

Purge Method: Hand Bail

Total Volume Removed: 19.00 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-34	1 liter Amber	None	STL	TPHD
MW-34	3-40 ml VOA's	YES HCL	STL	TPHG/BTEX/MTBE

Well Condition: Good

Remarks: Recharged to 5.64 at sampling Time

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name: COP Eureka #0201
Project No.: 098179.305
Location: Eureka, CA
Well #: EW-1
Hydrocarbon Thickness/Depth (feet): ~~0.00~~ 0.01
Date/Time: 2-24-05
Sampler Name: David R. Paine
Sample Type: Ground water
Weather: Overcast
Key Needed: No

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
	-		=		x		=	

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1610	sample Time							

Purge Method: Hand Bail
Total Volume Removed: _____ (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
EW-1	1 liter Amber	None	STL	TPHD
EW-1	3 - 40 ml VOA's	YES HCl	STL	TPHG/ BTEX/ MTBE

Well Condition:
Remarks: Recharged to at sampling Time

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-24-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	EW-2	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	0.00	Key Needed:	No

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
	-		=		x		=	

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1450	sample Time							

Purge Method: Hand Bail

Total Volume Removed: _____ (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
EW-2	1 liter Amber	None	STL	TPHD
EW-2	3-40 ml VOA's	YES HCL	STL	TPHG/BTEX/MTBE

Well Condition: _____

Remarks: Recharged to at sampling Time

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-24-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	EW-3	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	0.00	Key Needed:	No

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
	-		=		x		=	

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1410	Sample Time							

Purge Method: Hand Bail

Total Volume Removed: _____ (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
EW-3	1 liter Amber	None	STL	TPHD
EW-3	3-40 ml VOA's	YES HCL	STL	TPHG/BTEX/MTBE

Well Condition: _____

Remarks: Recharged to at sampling Time

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-24-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	EW-4	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	0.00	Key Needed:	No

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
	-		=		x		=	

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1355	sample Time							

Purge Method: Hand Bail Total Volume Removed: _____ (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
EW-4	1 liter Amber	None	STL	TPHD
EW-4	3-40 ml VOA's	YES HCL	STL	TPHG/BTEX/MTBE

Well Condition: _____

Remarks: Recharged to at sampling Time

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-24-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	EW-5	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	0.00	Key Needed:	No

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
	-		=		x		=	

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1425	Sample Time							

Purge Method: Hand Bail Total Volume Removed: _____ (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
EW-5	1 liter Amber	None	STL	TPHD
EW-5	3 - 40 ml VOA's	YES HCl	STL	TPHG / BTEX / MTBE

Well Condition: _____

Remarks: Recharged to _____ at sampling Time

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-24-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	EW-6	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	0.00	Key Needed:	No

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
	-		=		x		=	

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1440	Sample Time							

Purge Method: Hand Bail

Total Volume Removed: _____ (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
EW-6	1 liter Amber	None	STL	TPHD
EW-6	3 - 40 ml VOA's	YES HCL	STL	TPHG/BTEX/MTBE

Well Condition: _____

Remarks: Recharged to _____ at sampling Time

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-24-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	EW-7	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	0.02	Key Needed:	No

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
	-		=		x		=	

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1500	sample Time							

Purge Method: Hand Bail Total Volume Removed: _____ (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
EW-7	1 liter Amber	None	STL	TPHD
EW-7	3-40 ml VOA's	YES HCL	STL	TPHG/BTEX/MTBE

Well Condition: _____

Remarks: Recharged to _____ at sampling Time

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-24-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	EW-8	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	0.00	Key Needed:	No

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
	-		=		x		=	

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1510	sample Time							

Purge Method: Hand Bail

Total Volume Removed: _____ (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
EW-8	1 liter Amber	None	STL	TPHD
EW-8	3 - 40 ml VOA's	YES HCL	STL	TPHG/ BTEX/ MTBE

Well Condition: _____

Remarks: Recharged to at sampling Time

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-24-05
Project No.:	099179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	EW-9	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	0.00	Key Needed:	No

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
	-		=		x		=	

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1525	Sample Time							

Purge Method: Hand Bail Total Volume Removed: _____ (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
EW-9	1 Liter Amber	None	STL	TPHD
EW-9	3-40 ml VOA's	YES HCL	STL	TPHG/BTEX/MTBE

Well Condition: _____

Remarks: Recharged to _____ at sampling Time

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-24-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	EW-10	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	0.02	Key Needed:	No

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
	-		=		x		=	

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1540	Sample Time							

Purge Method: Hand Bail Total Volume Removed: _____ (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
EW-10	1 Liter Amber	None	STL	TPHD
EW-10	3-40 ml VOA's	YES HCL	STL	TPHG/BTEX/MTBE

Well Condition: _____

Remarks: Recharged to at sampling Time

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-24-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	EW-11	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	0.00	Key Needed:	NO

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
	-		=		x		=	

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1555	Sample Time							

Purge Method: Hand Bail

Total Volume Removed: _____ (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
EW-11	1 liter Amber	None	STL	TPHD
EW-11	3 - 40 ml VOA's	YES HCL	STL	TPHG / BTEX / MTBE

Well Condition: _____

Remarks: Recharged to _____ at sampling Time

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Water Sampling Data Sheet

Project Name:	COP Eureka #0201	Date/Time:	2-24-05
Project No.:	098179.305	Sampler Name:	David R. Paine
Location:	Eureka, CA	Sample Type:	Ground water
Well #:	EW-12	Weather	Overcast
Hydrocarbon Thickness/Depth (feet):	0.00	Key Needed:	No

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
	-		=		x		=	

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1630	sample Time							

Purge Method: Hand Bail Total Volume Removed: _____ (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
EW-12	1 liter Amber	None	STL	TPHD
EW-12	3 - 40 ml VOA's	YES HCL	STL	TPHG / BTEX / MTBE

Well Condition:

Remarks:

Recharged to at sampling Time

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • info@shn-eureka.com

Hazardous Material Supplies

Reference: 098129.305
Job Name: COP Eureka #0201
Date: 2/21-25/05
Signature: Dan R. Paine

COPY

Item	Desc.	Qty	Cost	Total
Latex Gloves	Each		$ 0.30	
Nitrile Lined Gloves	Each		$ 2.50	
Tyvek Coverall	Each		$ 8.00	
Organic Vapor/Acid Filter	Pair		$ 12.00	
Distilled Water	Gallon		$ 1.50	
Small Brushes	Each		$ 2.00	
Medium Brushes	Each		$ 6.00	
Large Brushes	Each		$ 15.00	
2.5" Brass Liners & Cap	W/2 Caps		$ 5.00	
Duct Tape	Roll		$ 7.00	
Barricade Tape	Roll		$ 25.00	
Small Tubing	Per Foot	166'	$ 0.50	83.00
55-Gallon Steel Drums	Each		$ 50.00	
Plastic Sheets	Per Foot		$ 2.00	
Plastic Bags	Box		$ 4.00	
2" Disp Bailers/Samp.	Each	18	$ 10.00	180.00
2" Locking Cap	Each	1	$ 16.70	16.70
4" Locking Cap	Each	1	$ 18.70	18.70
Dolphin Padlock	Each	4	$ 3.75	15.00
Stakes	Each		$ 0.50	
Tedlar Bags	1 L Each		$ 14.00	
Haz Labels	Each		$ 1.00	
Peristaltic Tubing	Per Foot	8'	$ 4.00	32.00
55-Gallon Plastic Drums	Each		$ 40.00	
Field Filters	Each		$ 15.00	
Aluminum Well Box	Each		$100.00	
Encore Samples	Each		$ 10.00	
4" Disposable Bailers	Each	5	$ 15.00	75.00
Ozone Drager Tubes	Each		$ 12.00	
Soak Ease 2"	Each		$ 15.00	

ConocoPhillips Chain Of Custody Record

STL-San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS
Attn: Olivia Perez
1230 W. Washington, Suite 212
Tempe, AZ 85281

ConocoPhillips Work Order Number: 0926 SEE SHN 001

ConocoPhillips Cost Object: WNO, 0926, EV

DATE: 2/25/05

PAGE: 1 of 4

SAMPLING COMPANY: SHN	Valid Value ID:	CONOCOPHILLIPS SITE NUMBER: COP Eureka II 0201	GLOBAL ID NO.:
ADDRESS: 812 W. Wabash Ave. Eureka, CA 95501		SITE ADDRESS (Street and City): 1200 Railroad Ave. Eureka, CA	CONOCOPHILLIPS SITE MANAGER: Ed Ralston
PROJECT CONTACT (Hardcopy or PDF Report to): Roland Rueber		EDF DELIVERABLE TO (PP or Designee):	PHONE NO.:
TELEPHONE: (707) 441-8855 FAX: (707) 441-8877	E-MAIL: RRUEBER@SHN-ENGR.COM		E-MAIL:
SAMPLER NAME(S) (Print): David R. Paine	CONSULTANT PROJECT NUMBER: 098179.305		LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☒ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☐

REQUESTED ANALYSES

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MtBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MtBE	Lead ☐Total ☐STLC ☐TCLP	TPHG 8015M		HVOC w/cis 1,2 DCE 8260B											TEMPERATURE ON RECEIPT C°
	MW-29	2/23/05	1115	W	7	X						X				X	X										
	MW-6		1125		1	X																					
	MW-3		1240		1	X																					
	MW-1		1250		1	X																					
	MW-20		1330		1	X																					
	MW-24		1415		4	X								X													
	MW-22		1500		1	X																					
	MW-7	↓	1600	/	4	X								X													
	MW-19	2/24/05	1205		1	X																					
	MW-5	↓	1215	↓	4	X								X													

FIELD NOTES:
Container/Preservative or PID Readings or Laboratory Notes

* Field Point name only required if different from Sample ID

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
David R. Paine			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

ConocoPhillips Chain Of Custody Record

STL-San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS, Attn: Olivia Perez, 1230 W. Washington, Suite 212, Tempe, AZ 85281

ConocoPhillips Work Order Number: 0926 SEC 001

ConocoPhillips Cost Object: WNO, 0926, EV

DATE: 2/25/05

PAGE: 1 of 4

SAMPLING COMPANY: SHN	Valid Value ID:
ADDRESS: 812 W. Wabash Ave. Eureka, CA 95501	
PROJECT CONTACT (Hardcopy or PDF Report to): Roland Rueber	
TELEPHONE: (707) 441-8855	FAX: (707) 441-8877
E-MAIL: RRueber@SHN-Engr.com	
SAMPLER NAME(S) (Print): David R. Paine	CONSULTANT PROJECT NUMBER: 098179.305
CONOCOPHILLIPS SITE NUMBER: COP Eureka II 0201	GLOBAL ID NO.:
SITE ADDRESS (Street and City): 1200 Railroad Ave. Eureka, CA	CONOCOPHILLIPS SITE MANAGER: Ed Ralston
EDF DELIVERABLE TO (EP or Designee):	PHONE NO.: / E-MAIL: / LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS): ☒ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☐

* Field Point name only required if different from Sample ID

REQUESTED ANALYSES

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MBE	Lead ☐Total ☐STLC ☐TCLP	TPHG 8015M	HVOC w/ 1,2 DCE 8260B
	MW-29	2/22/05	1115	W	7	X						X			X
	MW-6		1125		1	X									
	MW-3		1240		1	X									
	MW-1		1250		1	X									
	MW-20		1330		1	X									
	MW-24		1415		4	X								X	
	MW-22		1500		1	X									
	MW-7	↓	1600		4	X								X	
	MW-19	2/23/05	1205		1	X									
	MW-5	↓	1215	↓	4	X								X	

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
David R. Paine			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

ConocoPhillips Chain Of Custody Record

STL-San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:
INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS, Attn: Olivia Perez, 1230 W. Washington, Suite 212, Tempe, AZ 85281

ConocoPhillips Work Order Number: 0926 001
ConocoPhillips Cost Object: WNO. 0926 EV

DATE: 2/25/05
PAGE: 2 of 4

SAMPLING COMPANY: SHN	Valid Vella ID:
ADDRESS: 312 W. Wabash Ave. Eureka CA 95501	
PROJECT CONTACT (Hardcopy or PDF Report to): Roland Ruebel	
TELEPHONE: (707)441-8855	FAX: (707)441-8877
E-MAIL: RRUEBEL@SHN-ENGR.COM	
SAMPLER NAME(S) (Print): David R. Paine	CONSULTANT PROJECT NUMBER: 098179.305
CONOCOPHILLIPS SITE NUMBER: COP Eureka #0201	GLOBAL ID NO.:
SITE ADDRESS (Street and City): 1200 Railroad Ave. Eureka, CA	CONOCOPHILLIPS SITE MANAGER: Ed Ralston
EDF DELIVERABLE TO (RP or Designee)	PHONE NO.:
E-MAIL:	LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS): ☒ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☐

REQUESTED ANALYSES

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MtBE	8260B - TPHg/BTEX/8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8260B - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MtBE	Lead ☐Total ☐STLC ☐TCLP	TPHG 8015m	TPHG/MTBE 8015m	HVOC w/GRist, 2-DCE 8260B										TEMPERATURE ON RECEIPT C°
	MW-31	2/23/05	1300	W	4	X										X	X									
	MW-4		1310		7	X								X		X	X									
	MW-30		1430		3											X	X									
	MW-33		1440		1	X																				
	MW-34		1515		4	X						X														
	MW-17		1610		4	X						X														
	MW-32		1620		7	X									X	X										
	MW-3	↓	1700		4	X						X														
	MW-13	2/24/05	0830		1	X																				
	MW-25	↓	0900	↓	1	X																				

* Field Point name only required if different from Sample ID

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
David R Paine			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

9/1 Revision

ConocoPhillips Chain Of Custody Record

1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 208
Santa Ana, CA 92704

ConocoPhillips Work Order Number: 0926 ~~SEV~~ 001

ConocoPhillips Cost Object: WNO 0926 EV

DATE: 2/25/05

PAGE: 3 of 4

SAMPLING COMPANY: SHN	VaM Vista ID:
ADDRESS: 812 W. Wabash Ave. Eureka, CA 95501	
PROJECT CONTACT (Hardcopy or PDF Report to): Roland Rueber	
TELEPHONE: (707)441-8855 FAX: (707)441-8877	E-MAIL: RRUEBER@SHN-ENGR.COM
SAMPLER NAME(S) (Print): David R. Paine	CONSULTANT PROJECT NUMBER: 098179.305
CONOCOPHILLIPS SITE NUMBER: COP Eureka #0201	GLOBAL ID NO.:
SITE ADDRESS (Street and City): 1200 Railroad Ave. Eureka CA	Ed Ralston
EDF DELIVERABLE TO (PM or Designee):	PHONE NO.: E-MAIL: CAN RISE ONLY

TURNAROUND TIME (CALENDAR DAYS): ☒ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☐

* Field Point name only required if different from Sample ID

REQUESTED ANALYSES

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MtBE	8260B - TPHg/BTEX/8 Oxygenates	8260B - TPHg/BTEX/8 Oxygenates + additional (ondem)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MtBE	Lead ☐Total ☐STLC ☐TCLP	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	MW-15	2/24/05	1005	W	3							X		TEMPERATURE ON RECEIPT C°
	MW-27		1025		4	X						X		
	MW-26		1100		4	X						X		
	EW-4		1355		4	X						X		
	EW-3		1410		4	X						X		
	EW-5		1425		4	X						X		
	EW-6		1440		4	X						X		
	EW-2		1450		4	X						X		
	EW-7		1500		4	X						X		
	EW-8	↓	1510	↓	4	X						X		

Relinquished by: (Signature) David R. Paine		Received by: (Signature)	Date: Time:
Relinquished by: (Signature)		Received by: (Signature)	Date: Time:
Relinquished by: (Signature)		Received by: (Signature)	Date: Time:

STL-San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Chain of Custody Record

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 200
Santa Ana, CA 92704

ConocoPhillips Work Order Number: 0926 [redacted] 001

ConocoPhillips Cost Object: WNO 0926 EV

DATE: 2/25/05

PAGE: 4 of 4

LING COMPANY: SHN	Valid Value ID:
RESS: 2 W. Wabash Ave. Eureka, CA 95501	
JECT CONTACT (Hardcopy or PDF Report to): Roland Rueber	
EPHONE: (707) 441-8855	FAX: (707) 441-8877
E-MAIL: RUBUREQSHNENGR.com	
LER NAME(S) (Print): David R. Paine	CONSULTANT PROJECT NUMBER: 098179.305
RNAROUND TIME (CALENDAR DAYS): 4 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS	
CIAL INSTRUCTIONS OR NOTES:	CHECK BOX IF EDD IS NEEDED ☐

CONOCOPHILLIPS SITE NUMBER: COP Eureka #0201	GLOBAL ID NO.:
SITE ADDRESS (Street and City): 1200 Railroad Ave. Eureka CA	Ed Rolston
EDF DELIVERABLE TO (RP or Designee):	PHONE NO.: / E-MAIL: / LAB USE ONLY

REQUESTED ANALYSES

Field Point name only required if different from Sample ID

Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MtBE	8260B - TPHg/BTEX/8 Oxygenates	8260B - TPHg/BTEX/8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MtBE	Lead ☐Total ☐STLC ☐TCLP	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes / TEMPERATURE ON RECEIPT C°
EW-9	2/24/05	1535	W	4	X						X		
EW-10		1540		4	X						X		
EW-11		1555		4	X						X		
EW-1		1610		4	X						X		
EW-12	↓	1630	↓	4	X						X		

Relinquished by: (Signature) David R. Paine	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

SFERB Revision

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash * Eureka, CA 95501-2138 * 707/441-8855 * FAX: 707/441-8877 * shninfo@shn-engr.com

DAILY FIELD REPORT

Job No: 098179.304
Page of

Project Name	Client/Owner	Daily Field Report Sequence No
	Conocophillips	
General Location Of Work: Cop. Eureka	Owner/Client Representative	Date: 2/25/05 Day Of Week: Fri.
General Contractor: Eureka CA	Grading Contractor	Project Engineer: Mike Foget
Type Of Work: O+M	Grading Contractor, Superintendent, Or Foreman	Supervisor
Source & Description Of Fill Material	Weather: Ovc Cast	Technician: Dustin Tibbets
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)	

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

0900 On site.
0915 Taking reading on the Eastern biovent system
0930 Taking reading on the DPE system.
1105 Took Sumo sample on Exs-EFF
1110 Took Sumo sample on Car-EFF
1115 Took Sumo sample on Exs-INF
1210 Took reading from West Biovent system.
1210 Sampled AS-EFF.
1220 Sampled Ex-EFF.
1310 Sling out Free product from wells.
1320 Clean and loaded up
1330 Off site.

Note: Did a dead head pump test on Discharge pump. 14 PSI.

Copy given to:

Reported By: Dustin Tibbets